

FIG. 1A

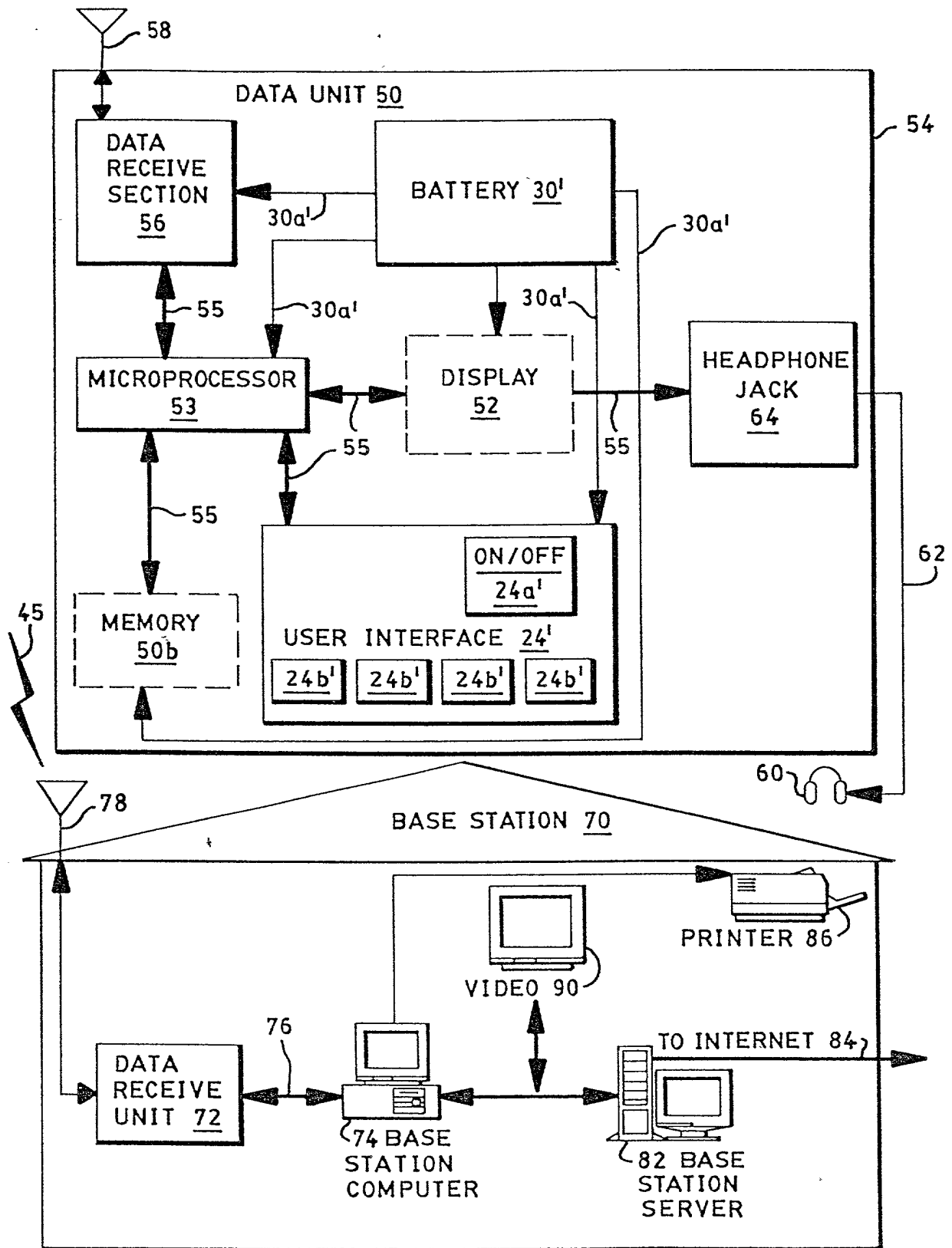


FIG. 1B

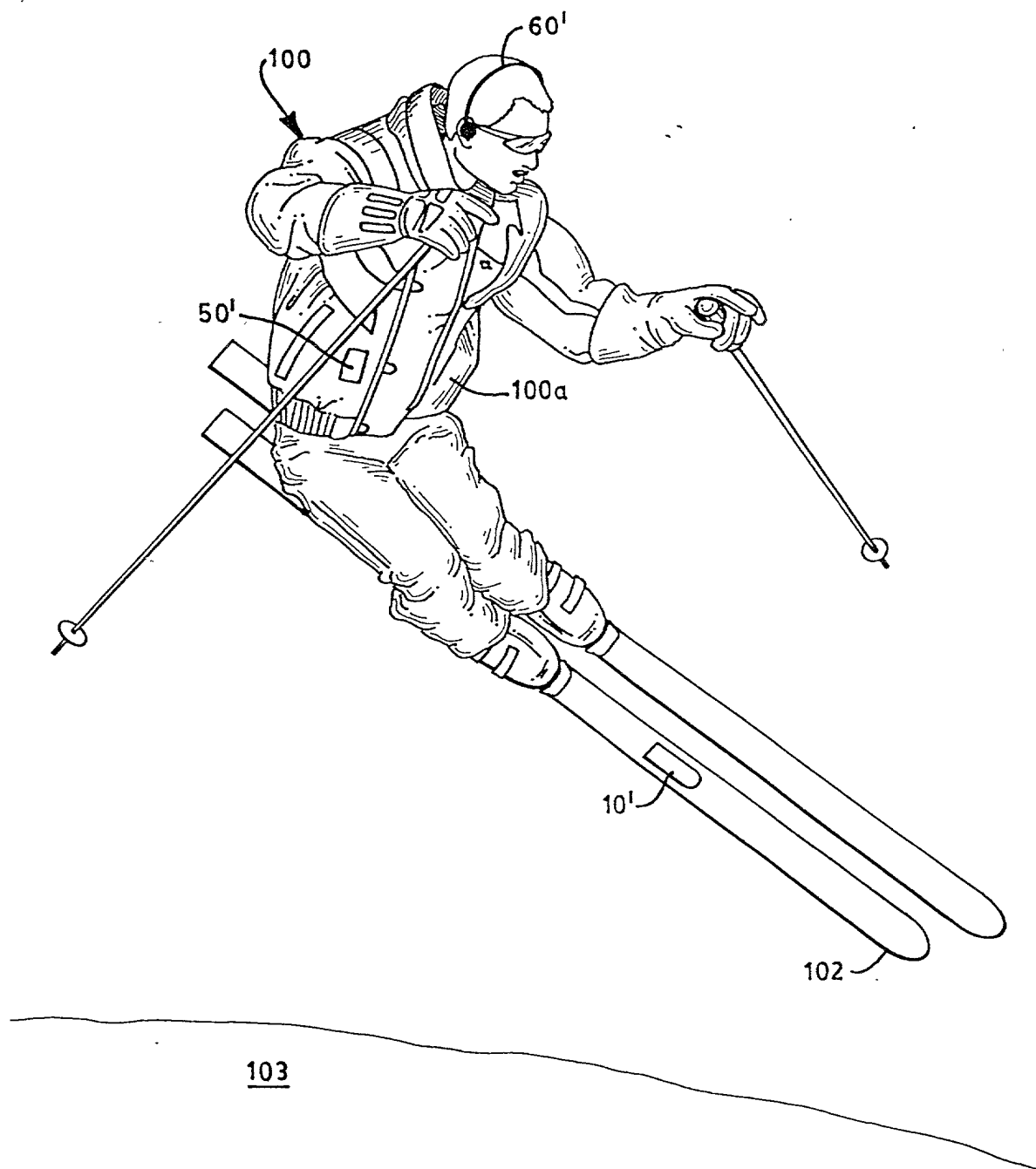


FIG. 2

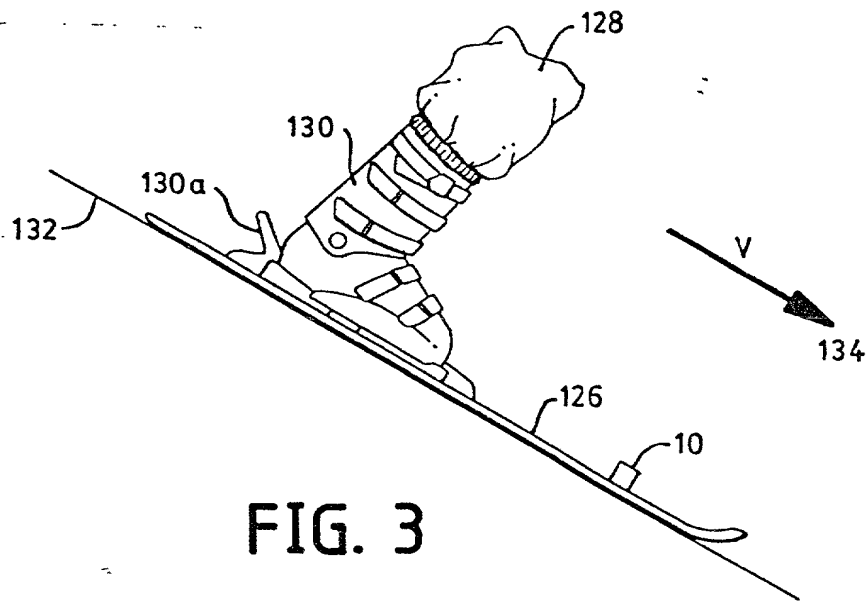


FIG. 3

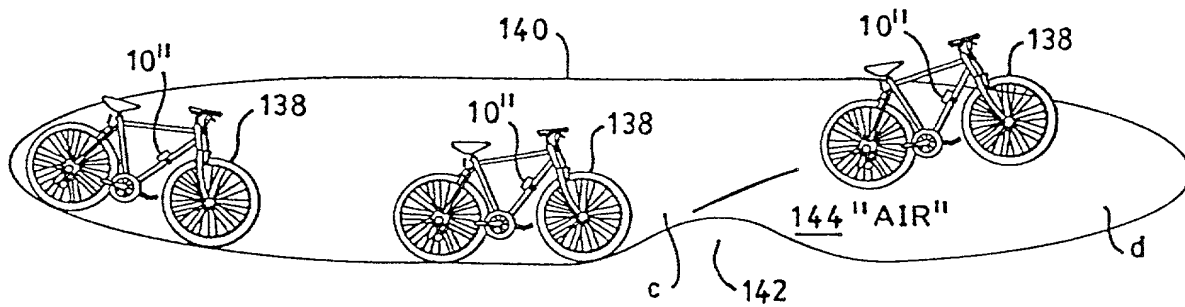


FIG. 5

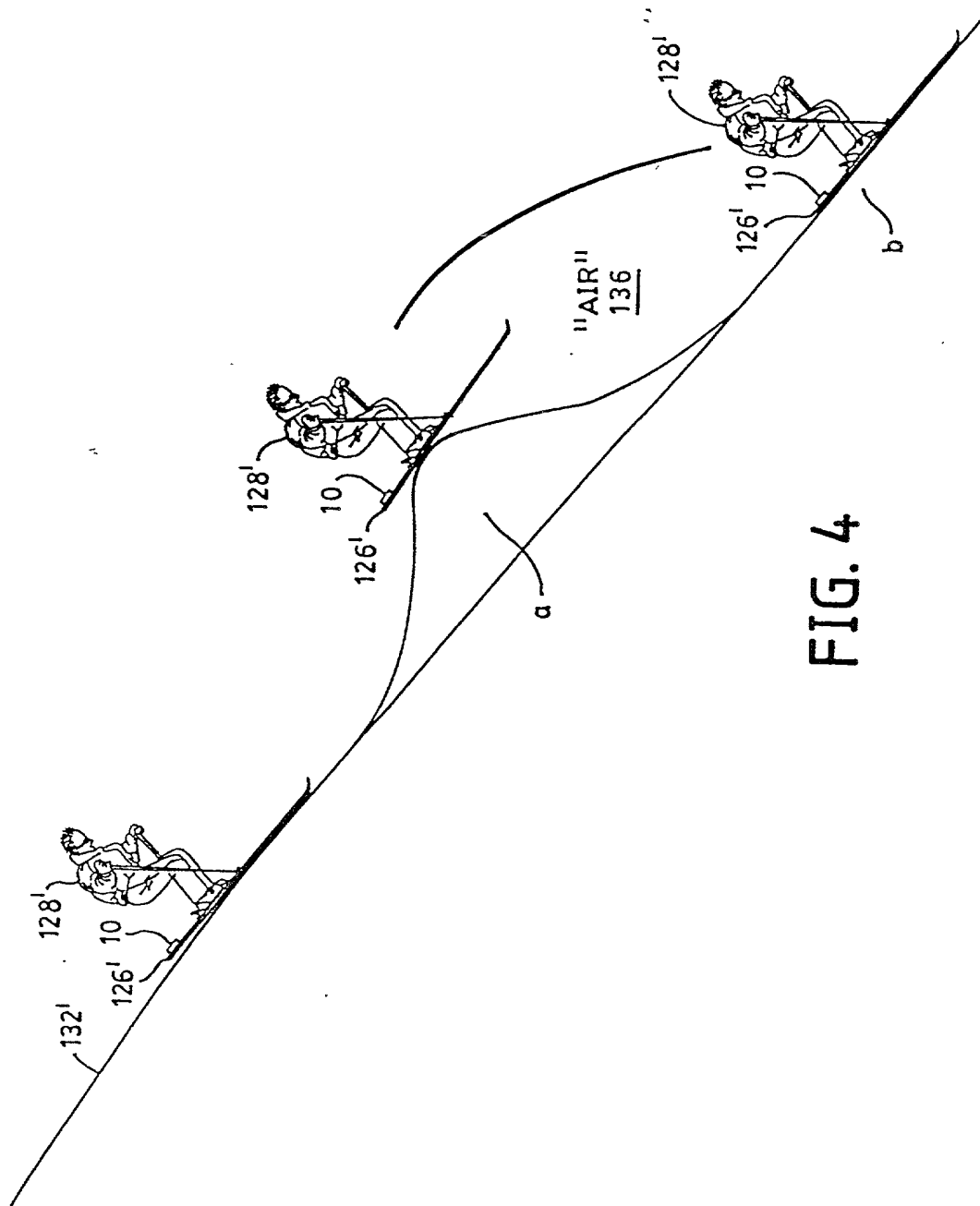


FIG. 4

09992966 110601

ACCELEROMETER DATA

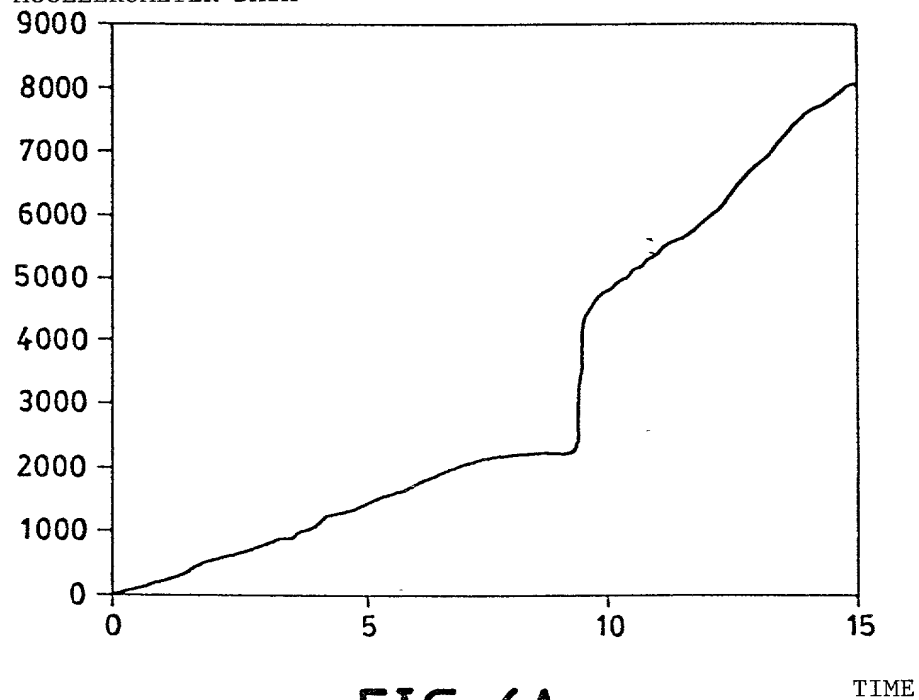


FIG. 6A

ACCELEROMETER DATA

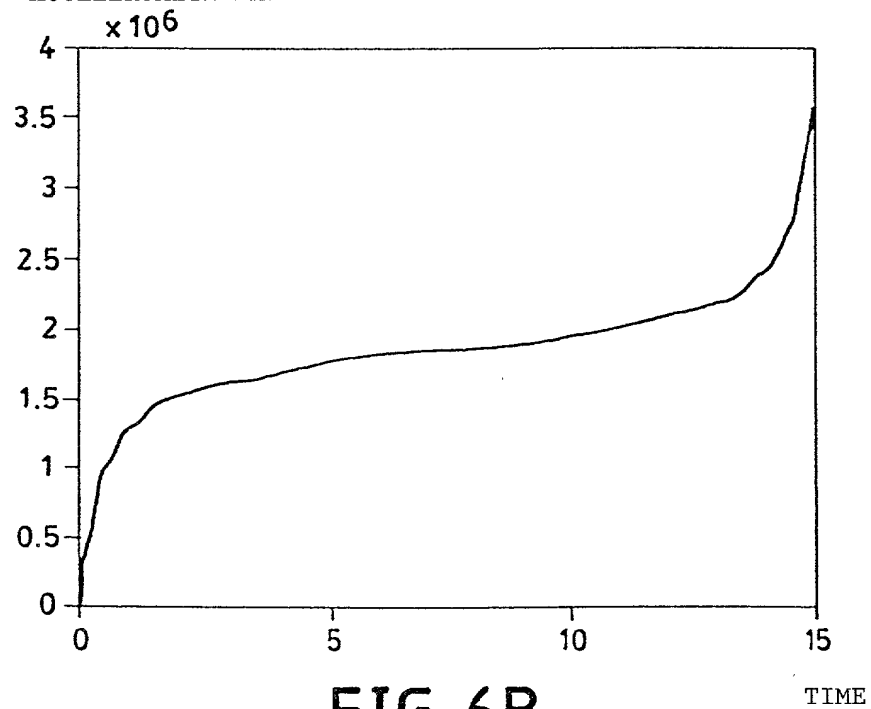


FIG. 6B

ACCELEROMETER DATA

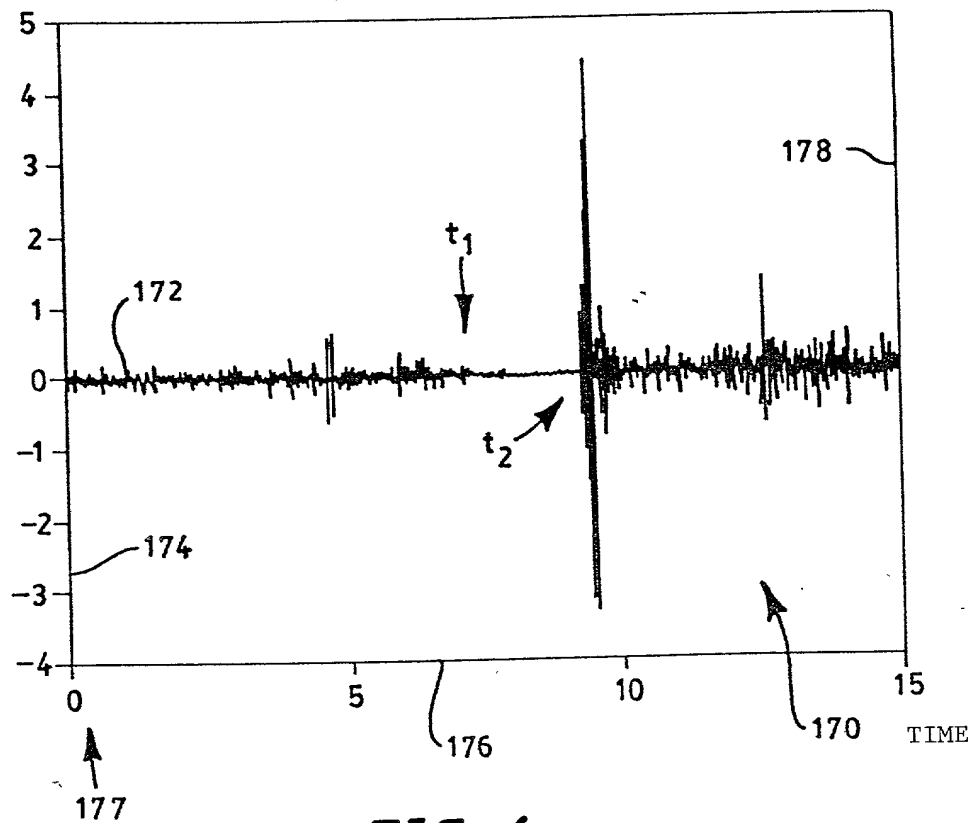


FIG. 6

VIBRATIONAL OR SOUND
SPECTRUM MAGNITUDE

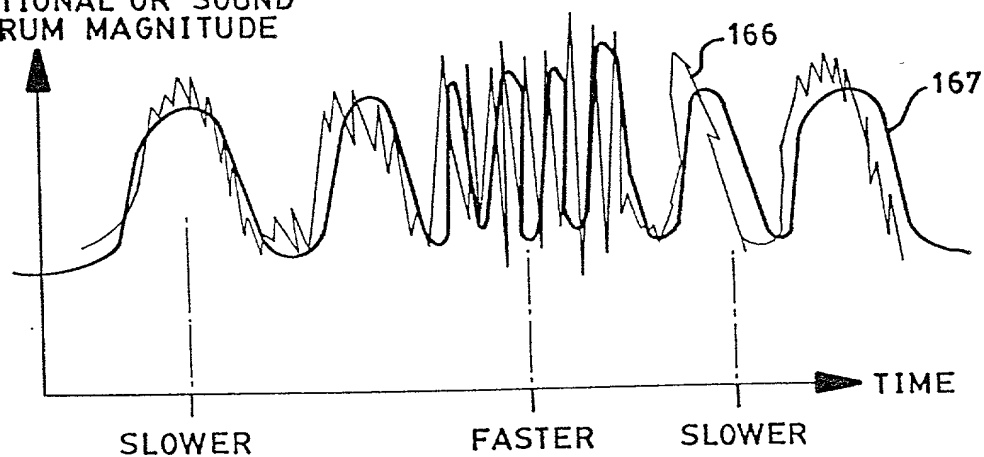


FIG. 8

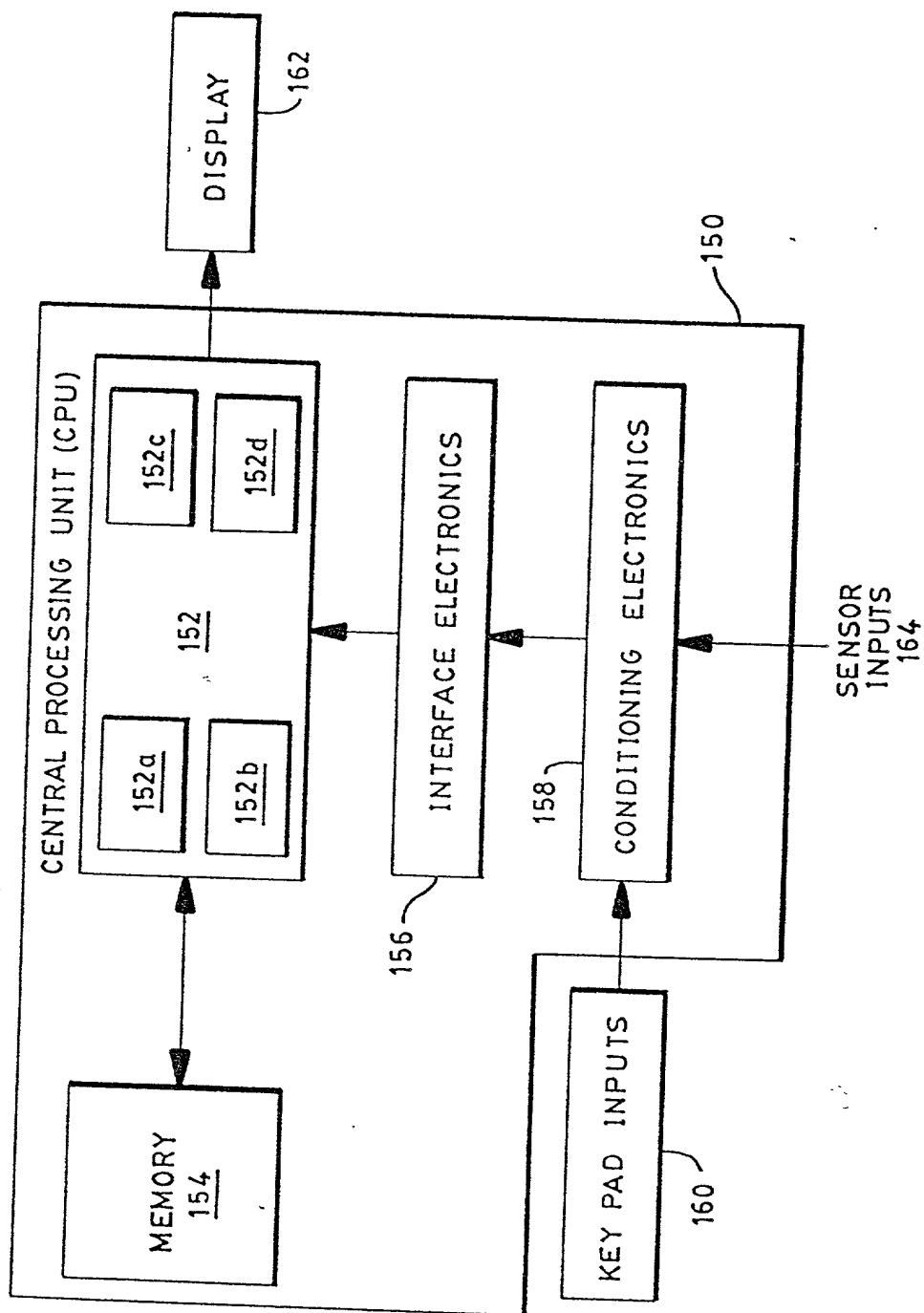


FIG. 7

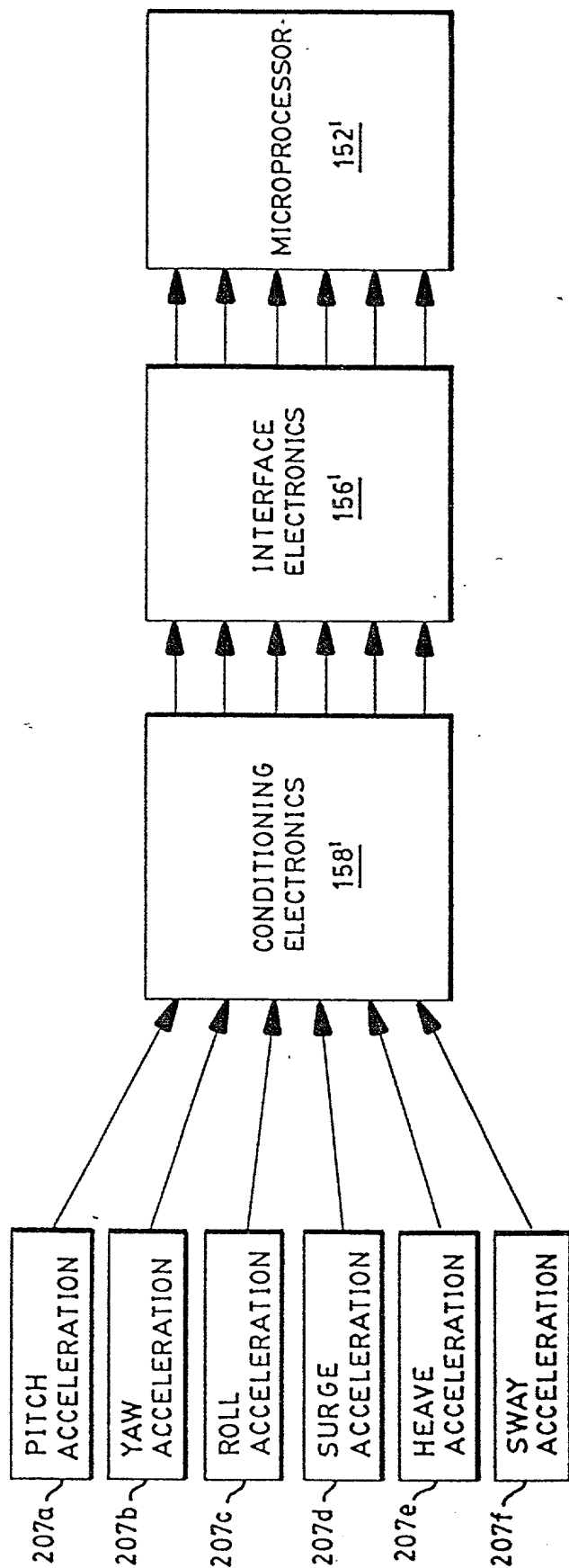


FIG. 9

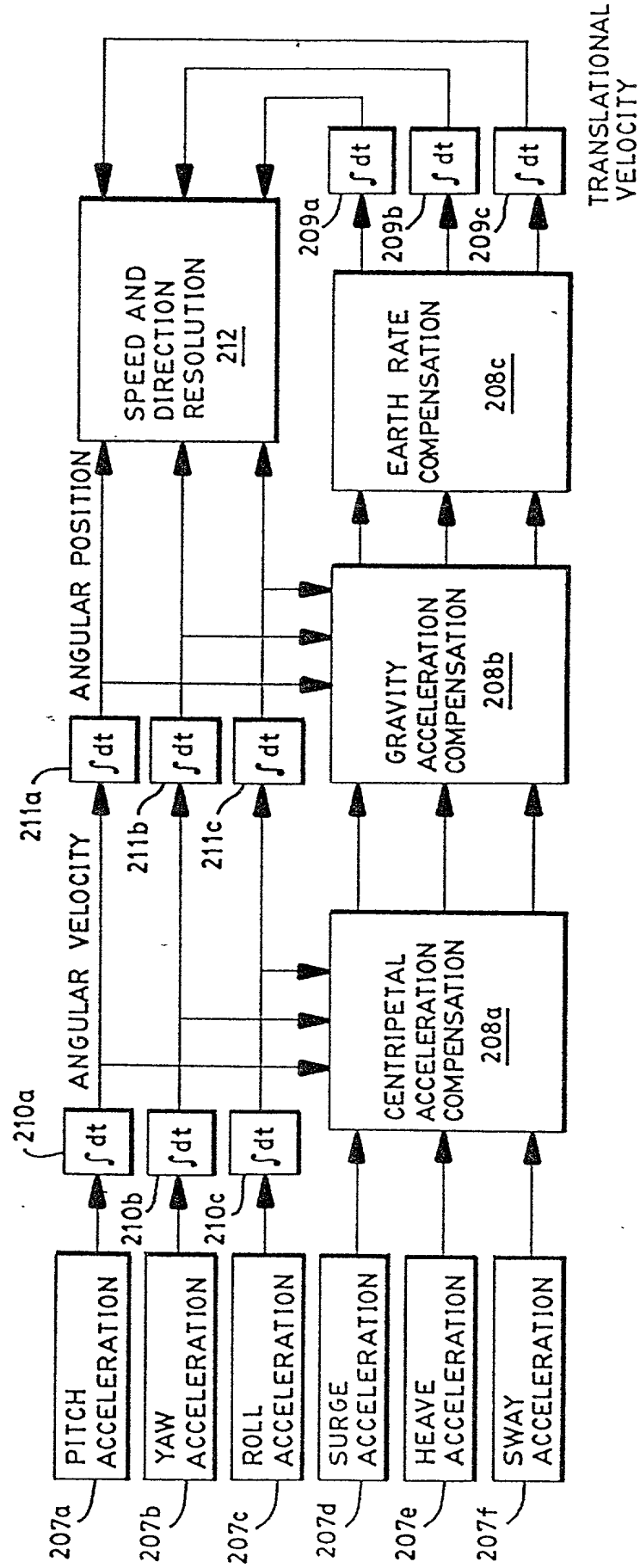


FIG.10

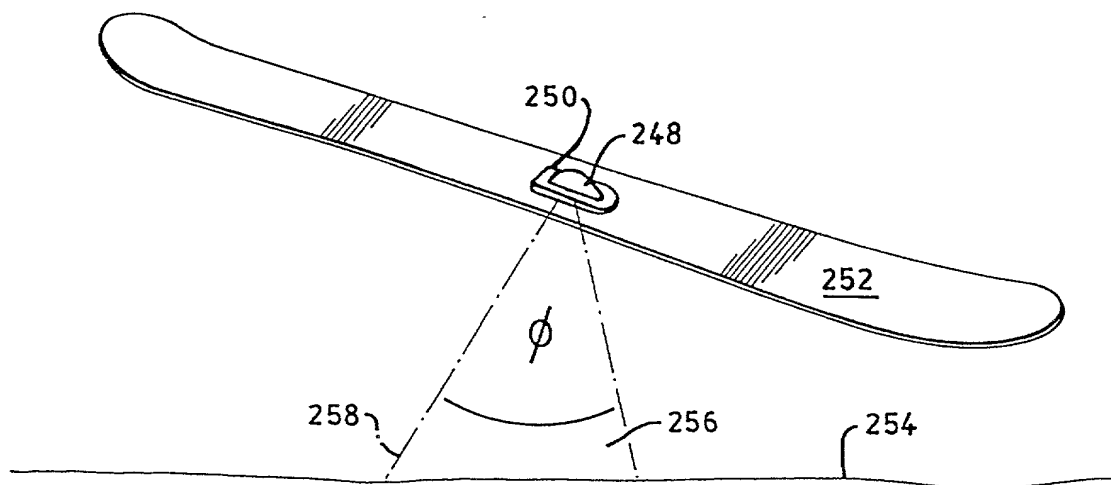


FIG. 11

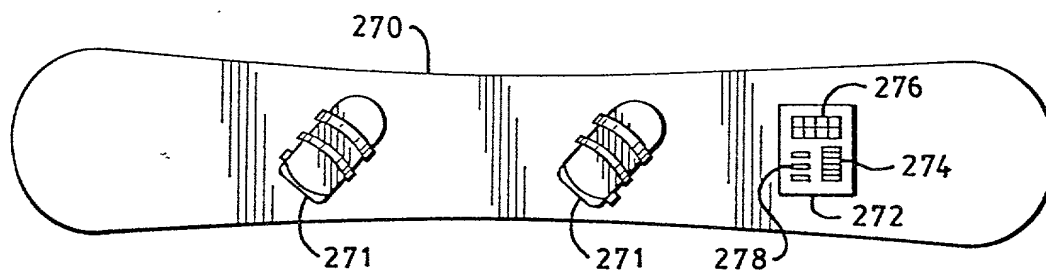


FIG. 12

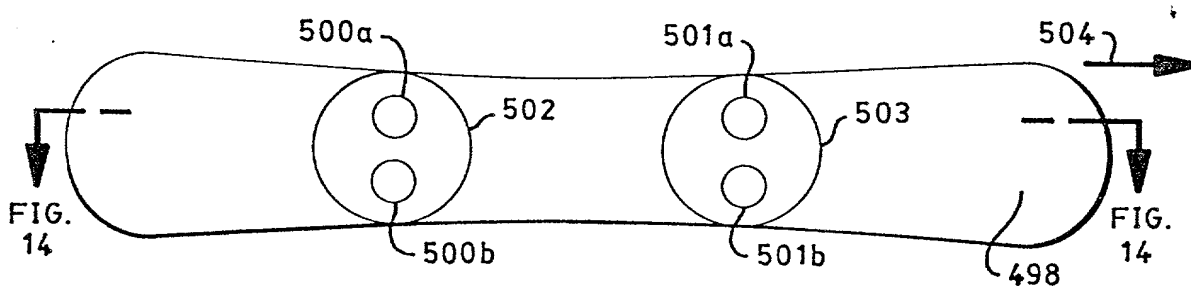


FIG. 13



FIG. 14

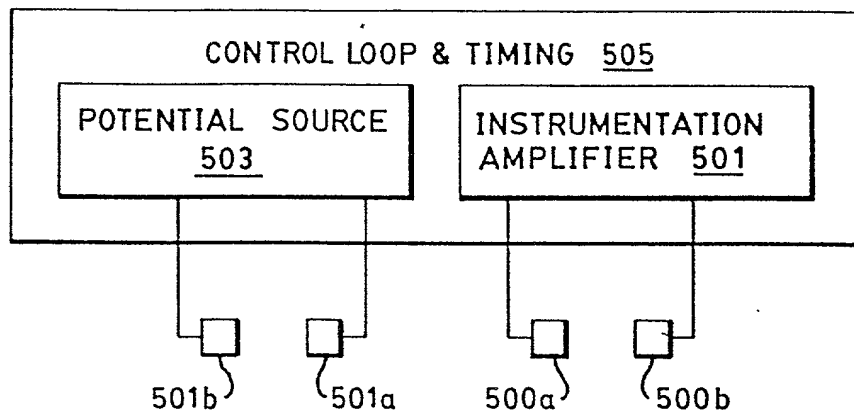


FIG. 15

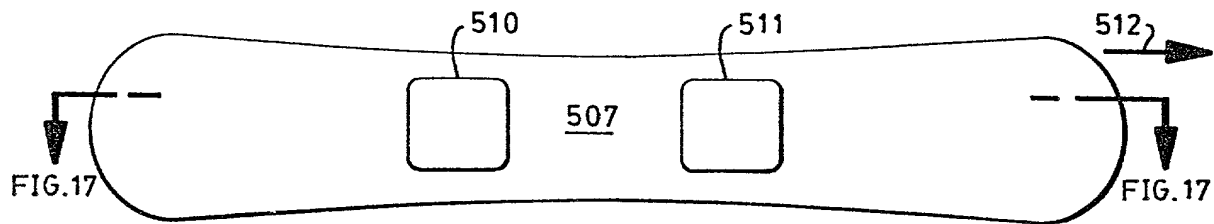


FIG. 16

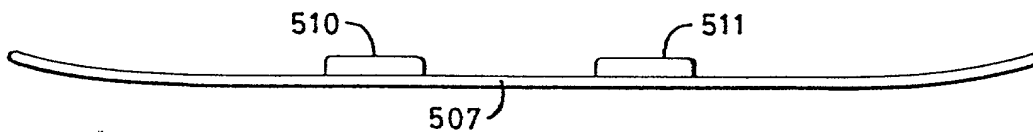


FIG. 17

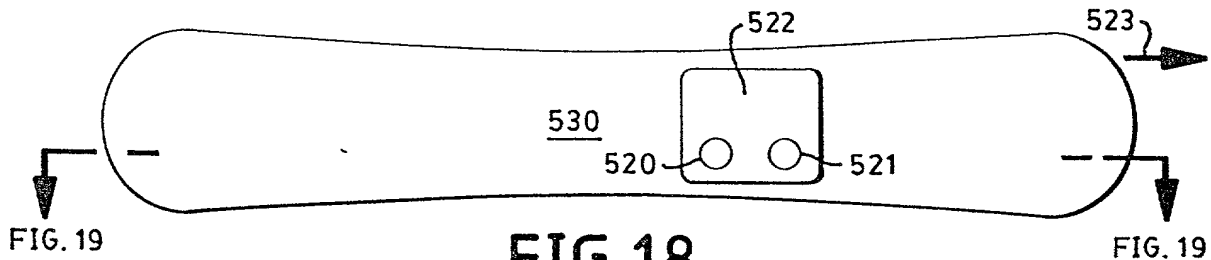


FIG. 18



FIG. 19

09999999-1001

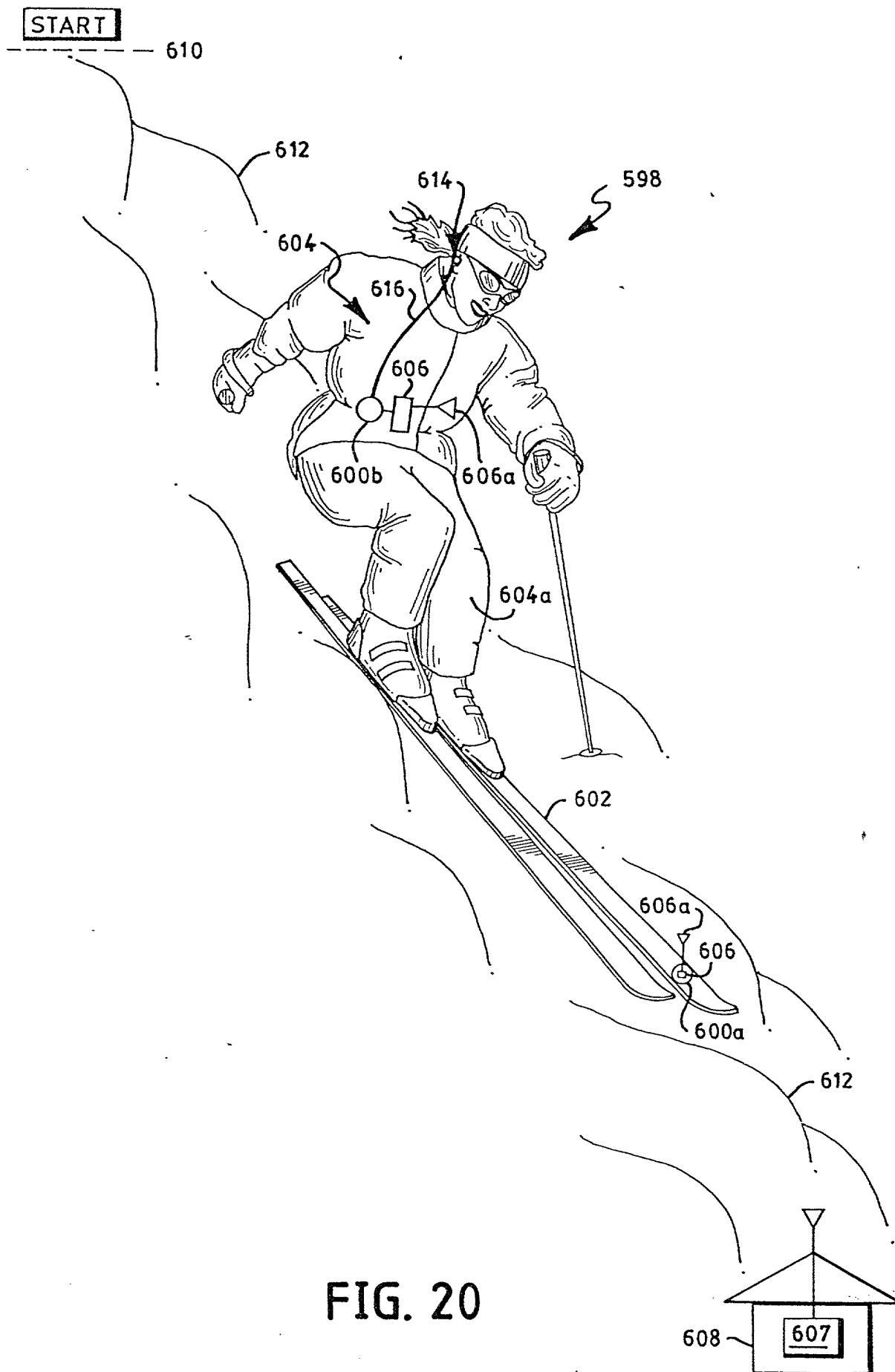


FIG. 20

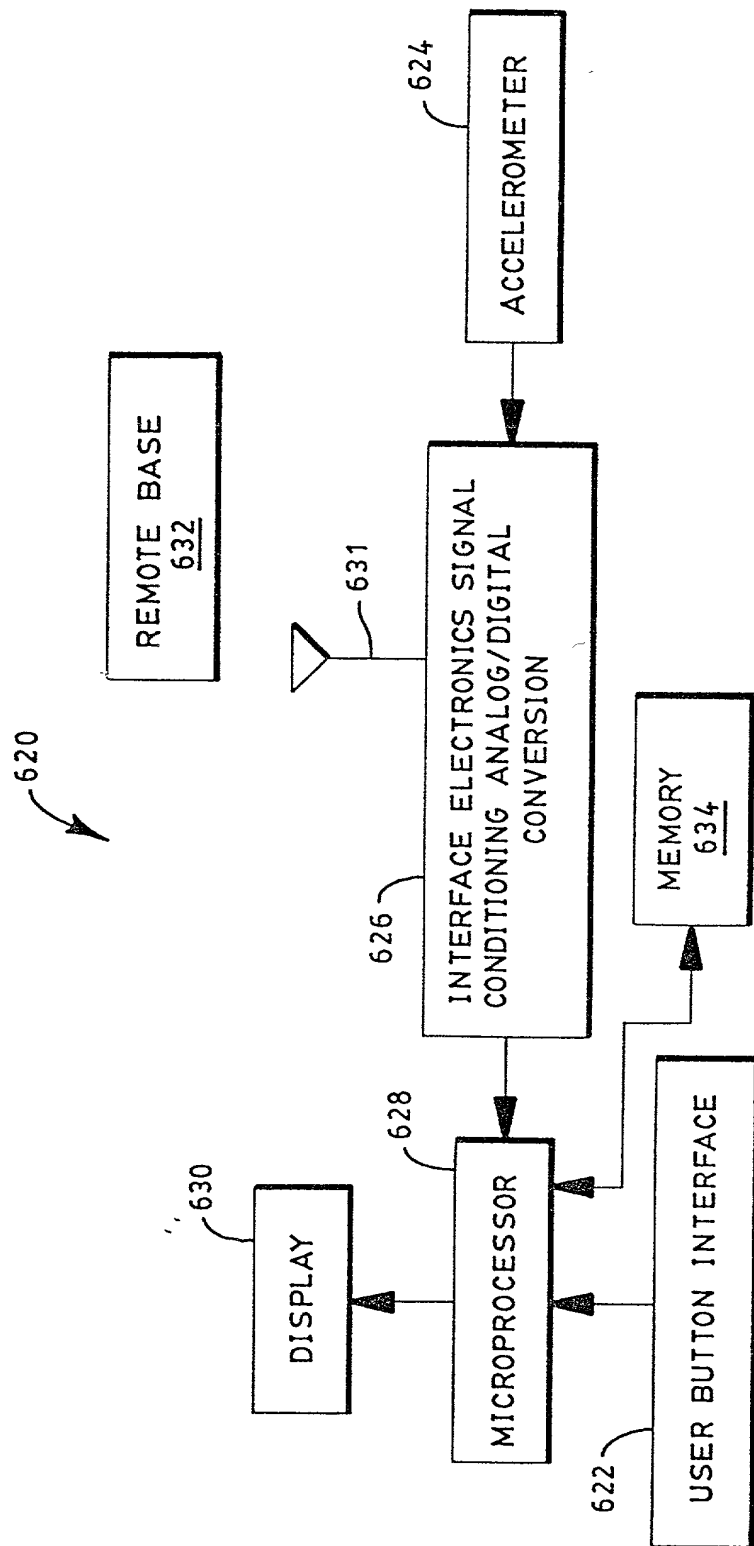


FIG. 21

TD90T 99525600

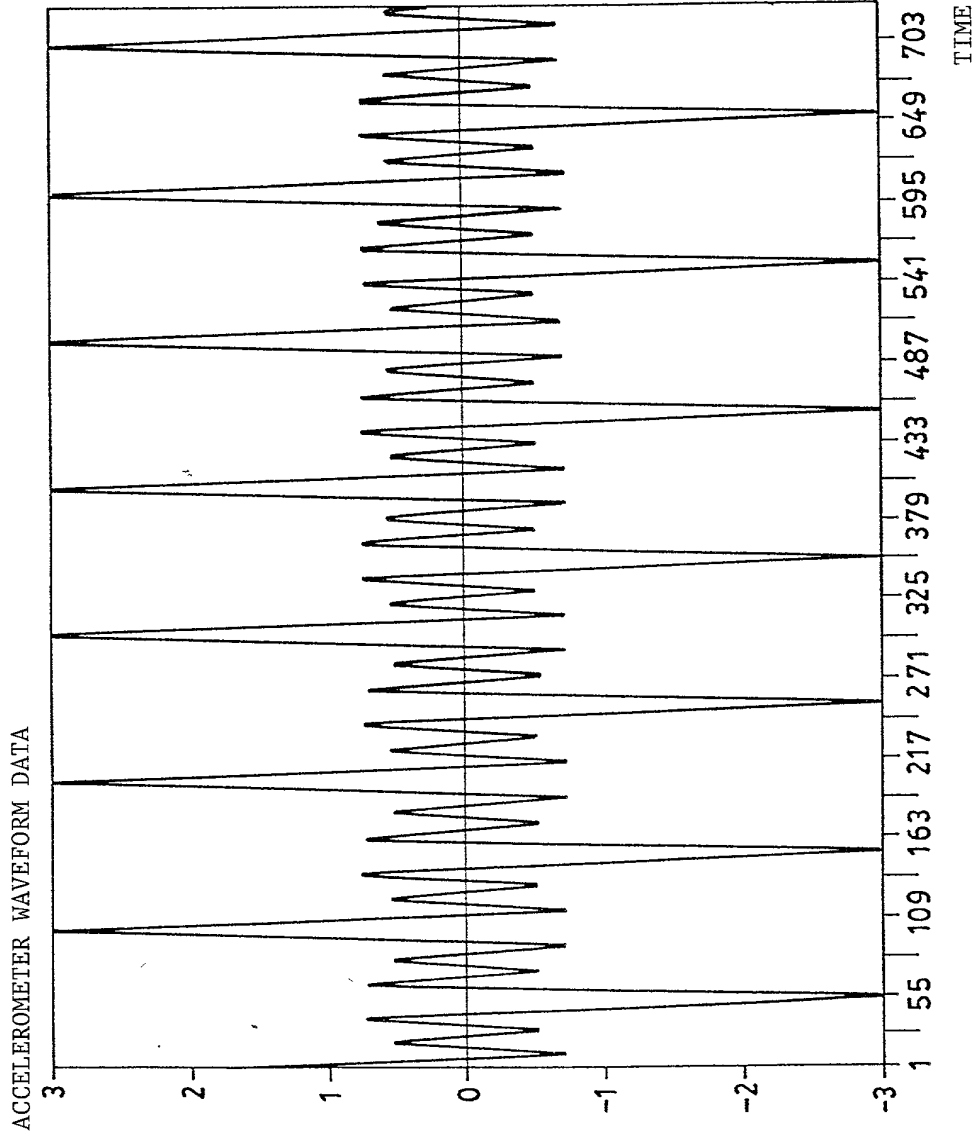


FIG. 22

TD90T" 9526660

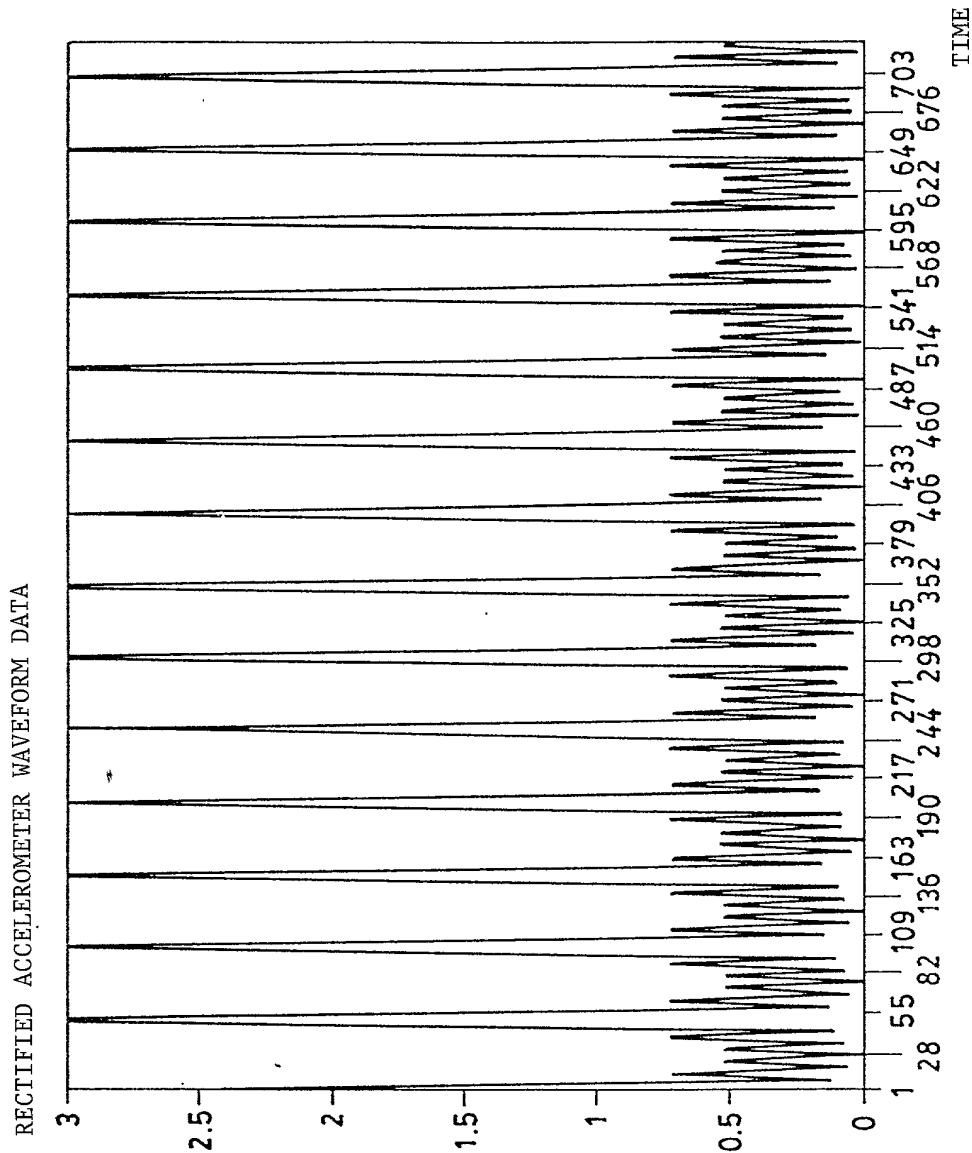


FIG. 23

FIG. 24

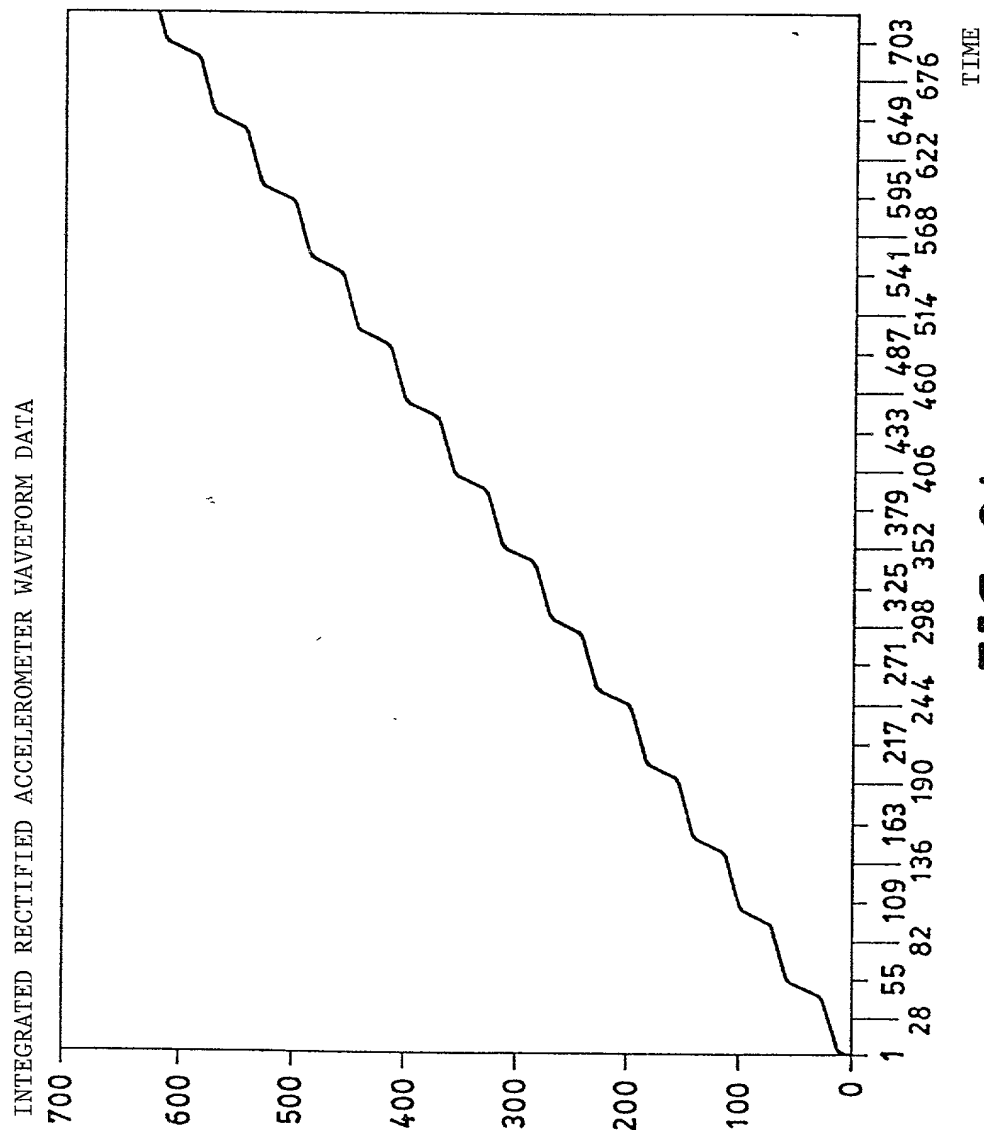


FIG. 24

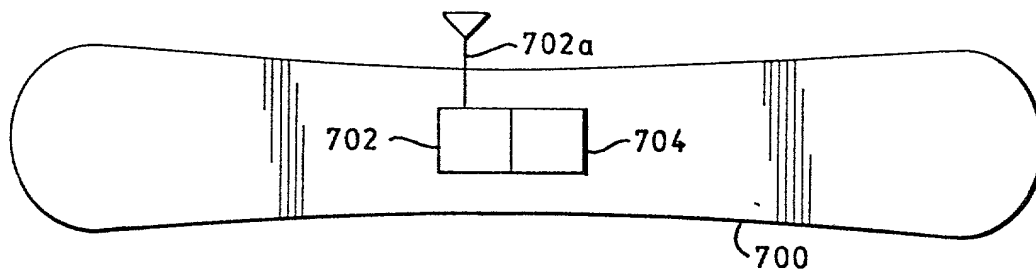


FIG. 25

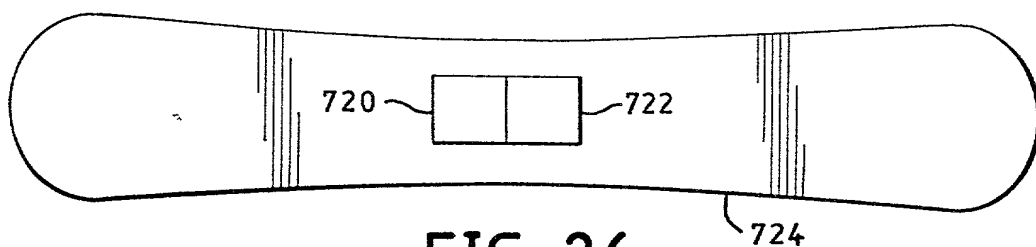


FIG. 26

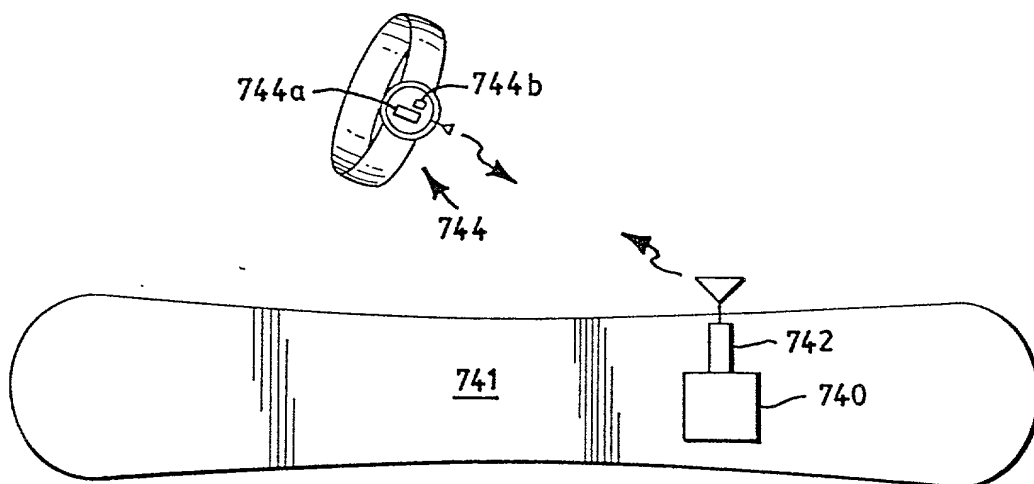


FIG. 27

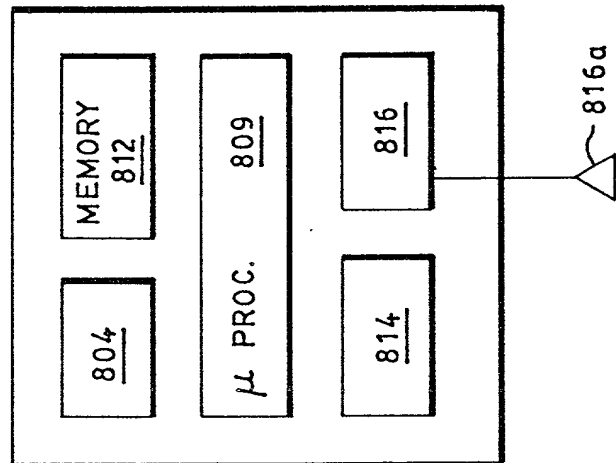
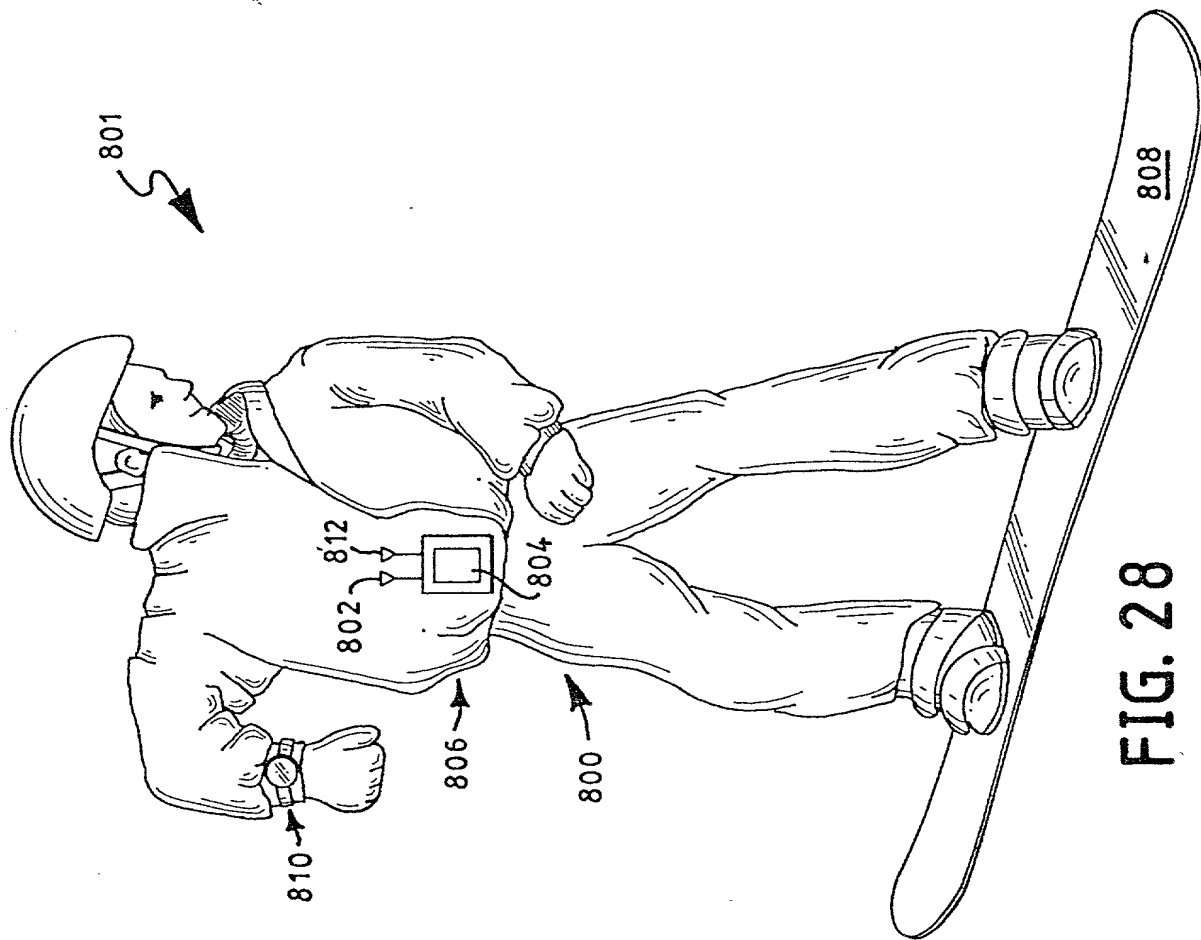


FIG. 29

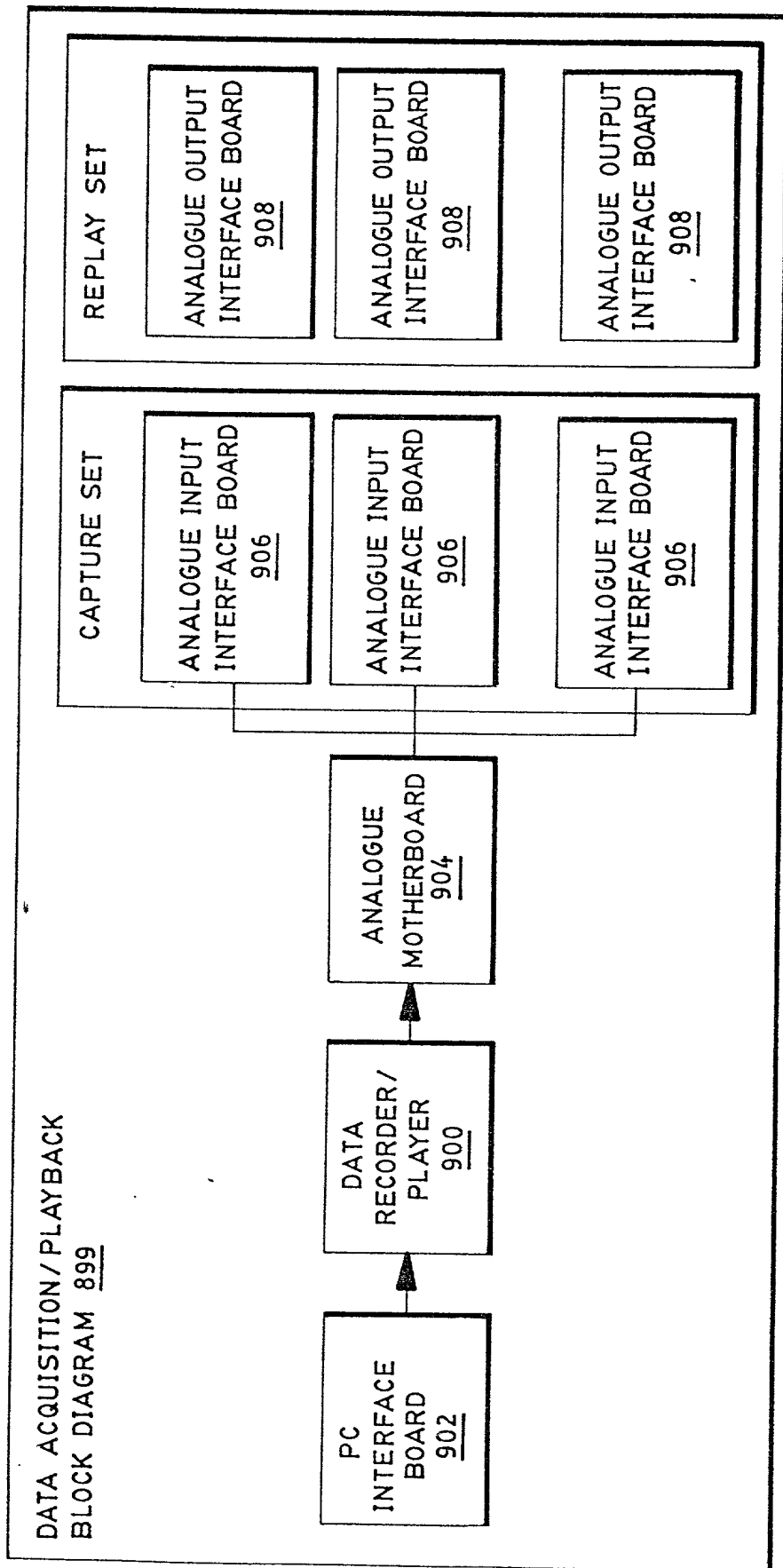


FIG. 30

```
graph LR; 32BIT[32 BIT DATA INTERFACE] --> CL[CONTROL LOGIC 912]; CI[CONTROL INTERFACE] --> CL; CLOCK[CLOCK] --> CL; CL --> MEM[MEMORY 910];
```

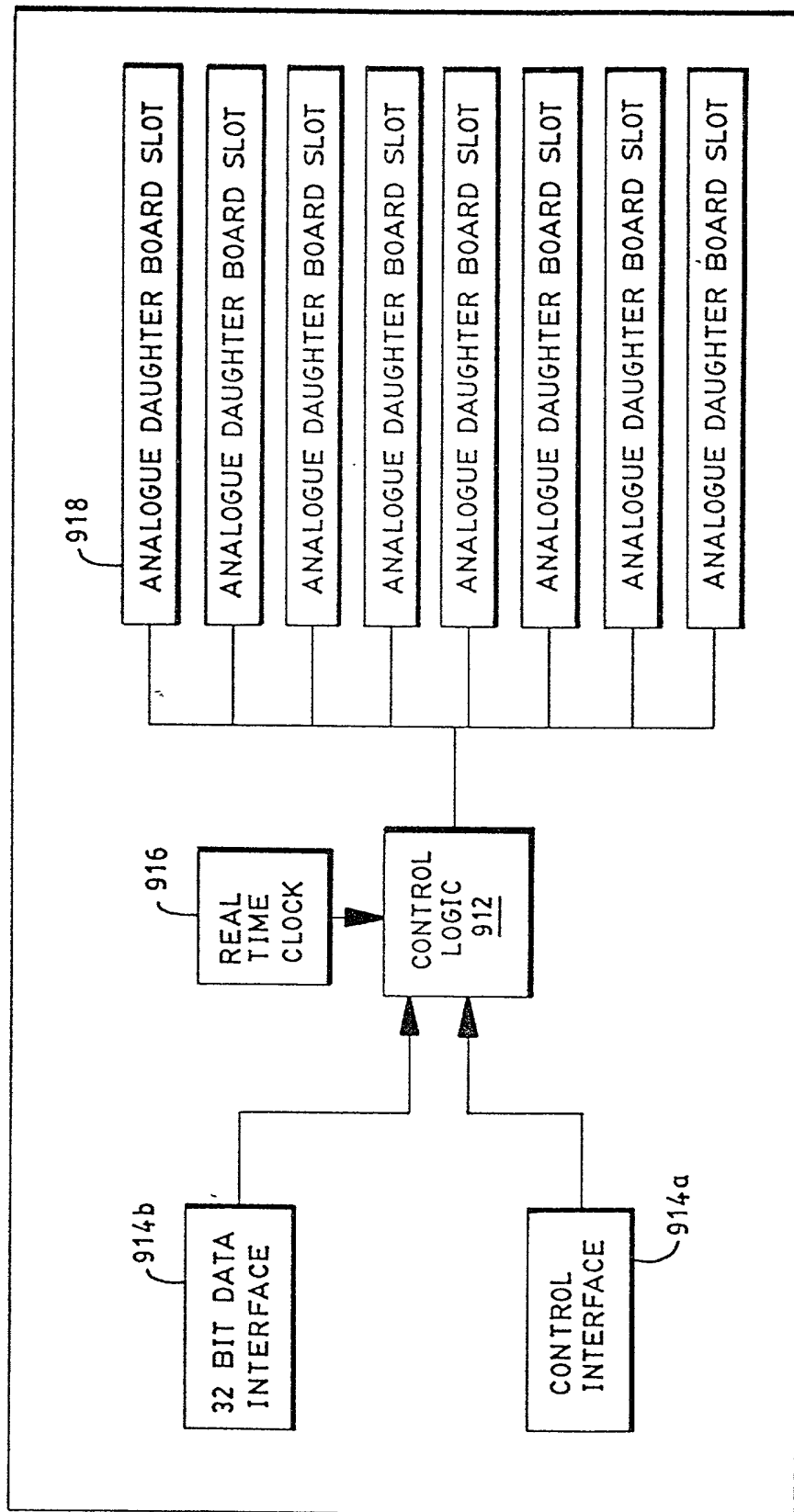


FIG. 32

930

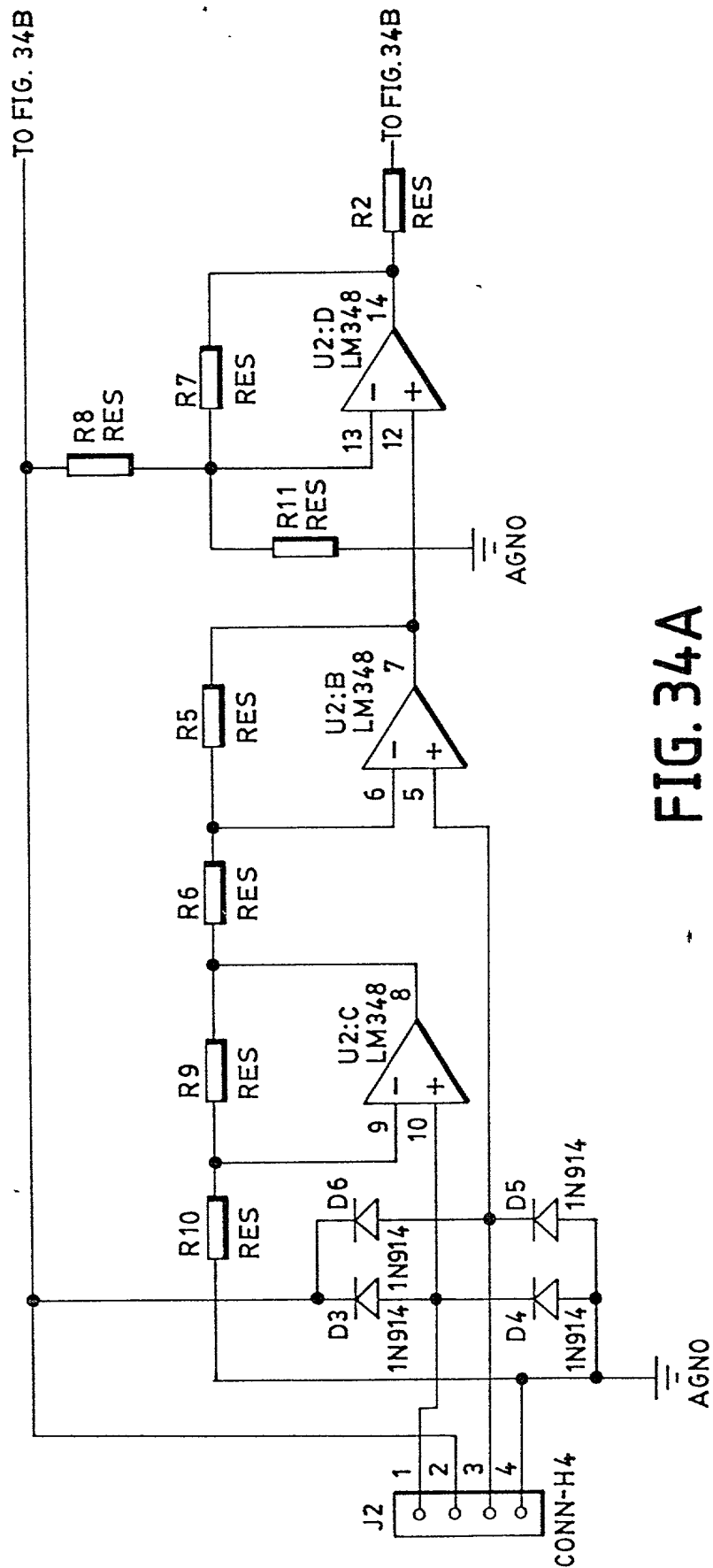


FIG. 34A

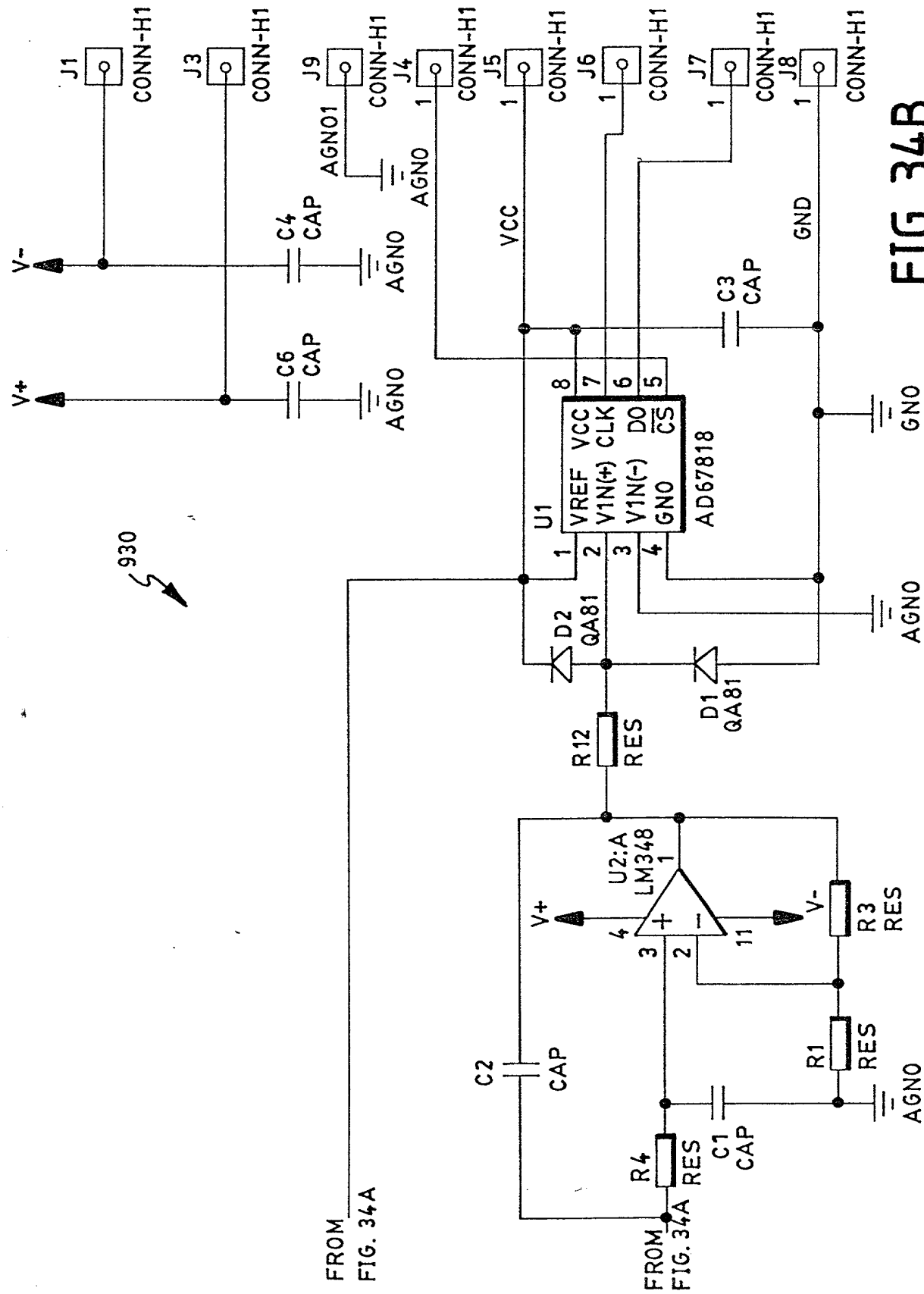


FIG. 34B

940

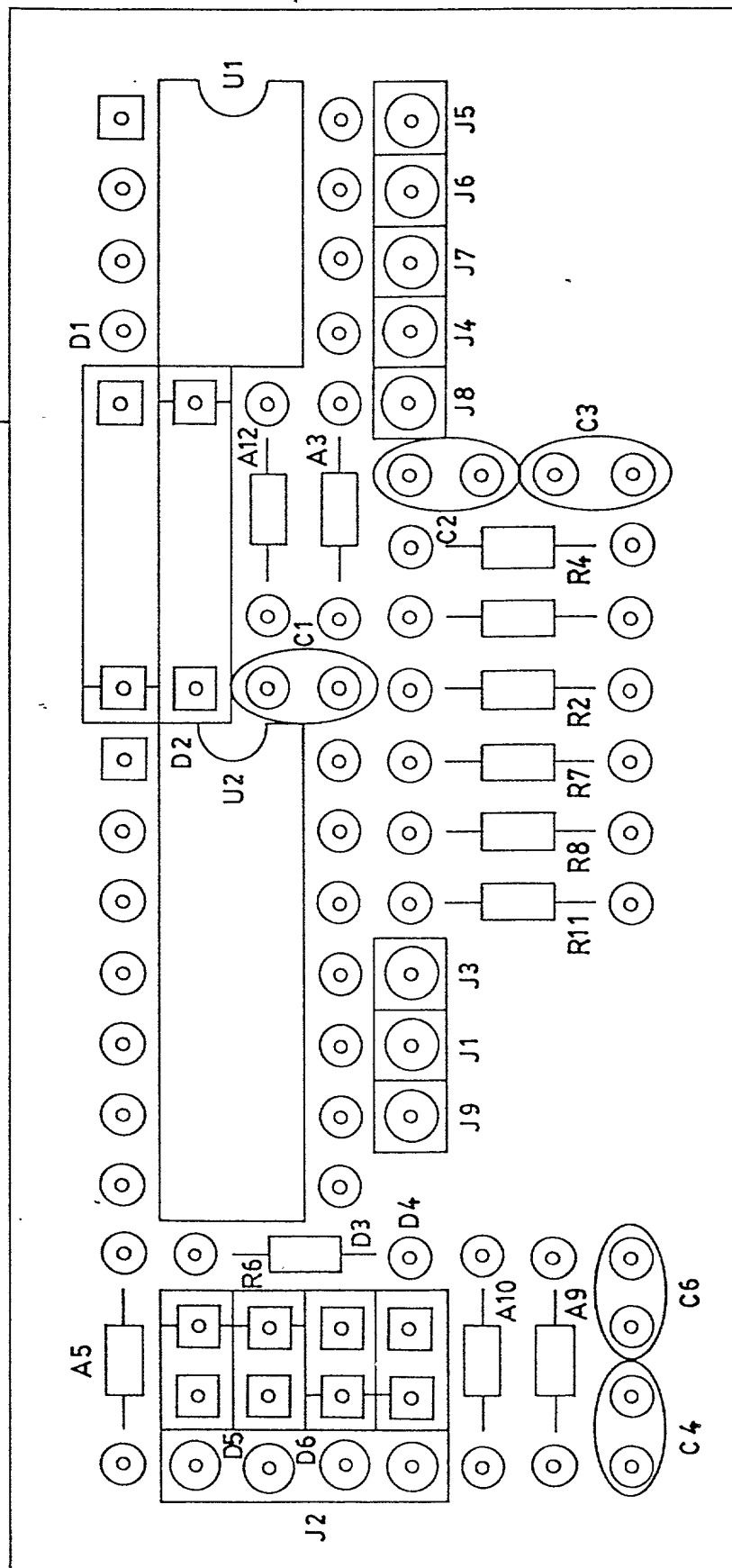


FIG. 35

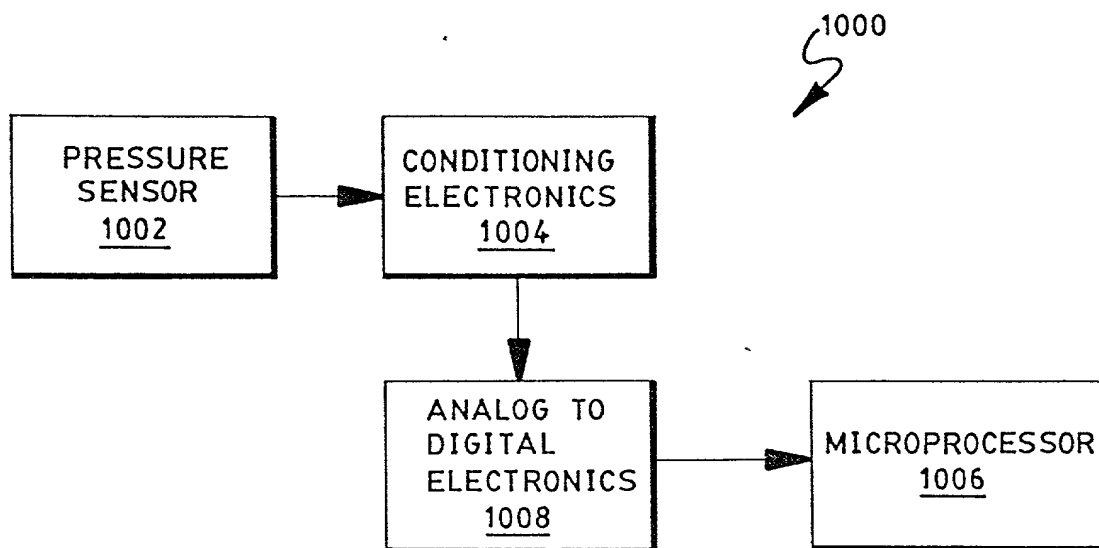


FIG. 36

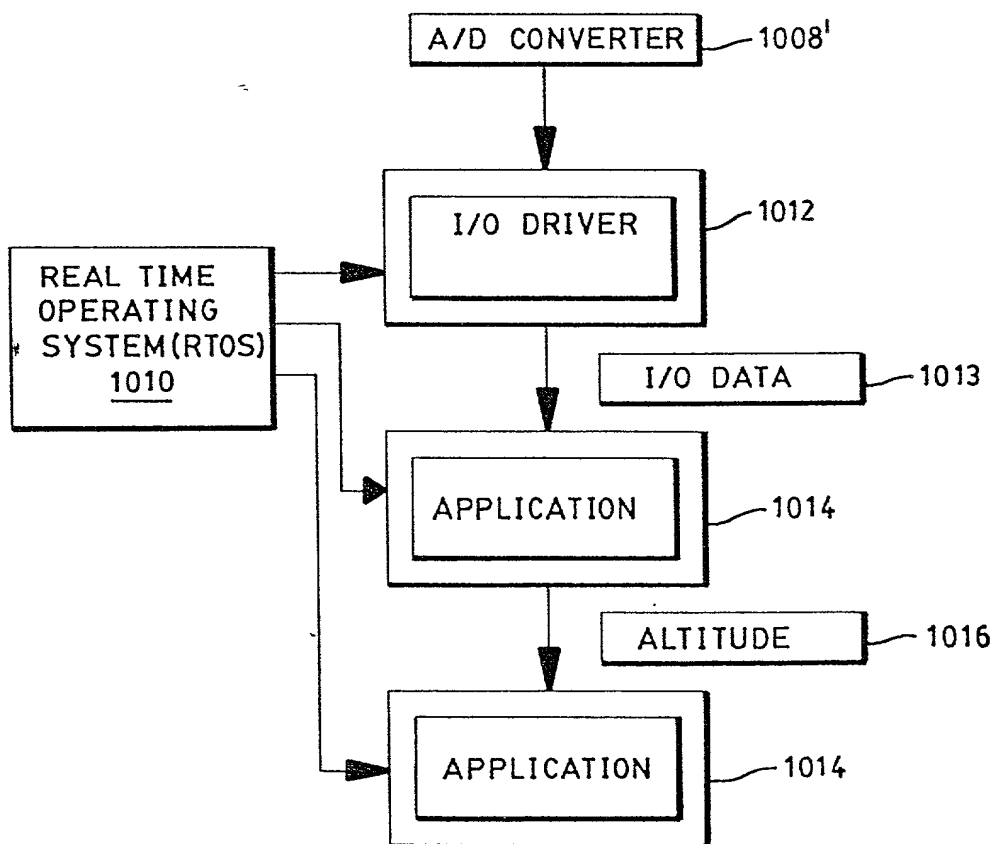


FIG. 37

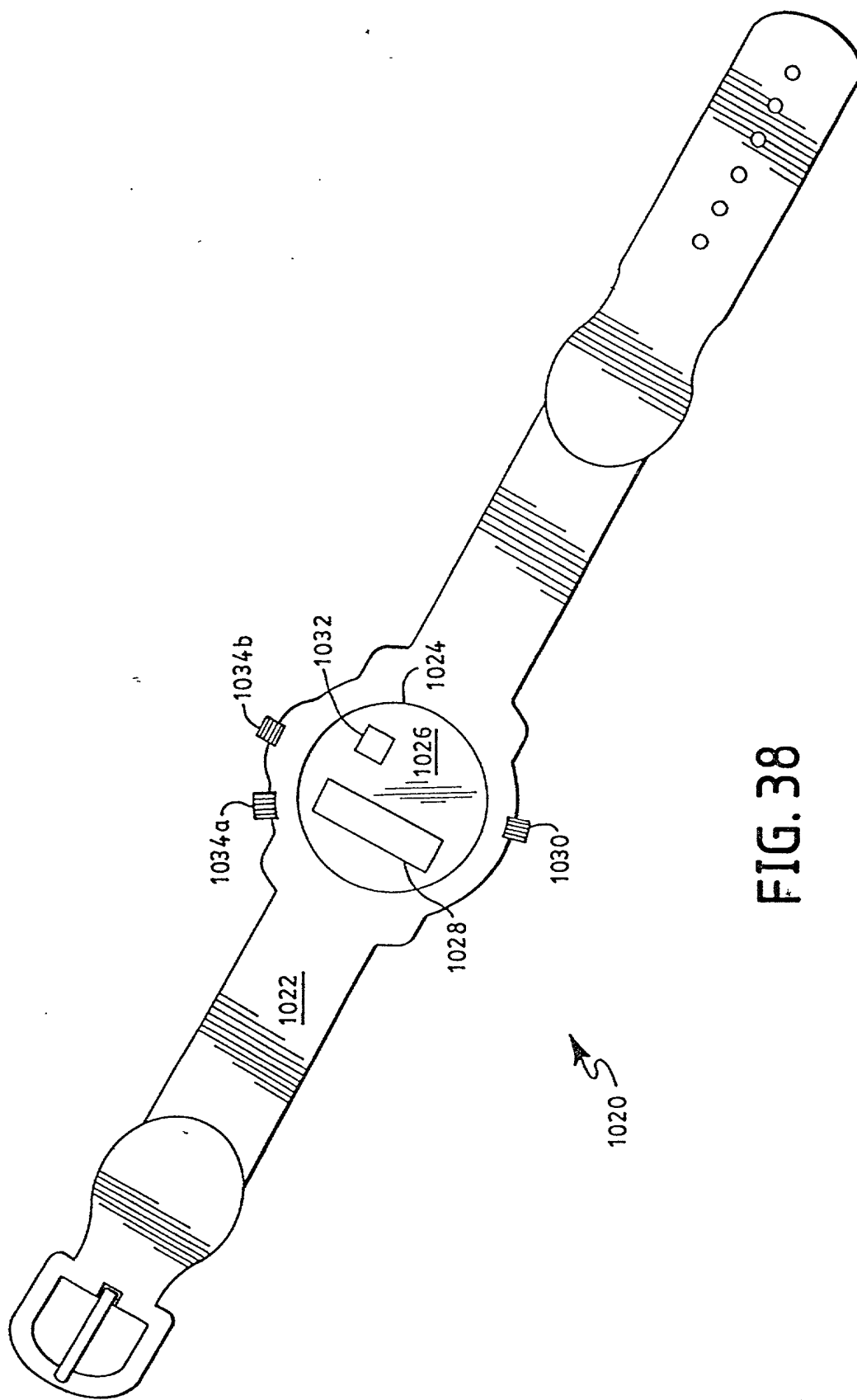


FIG. 38

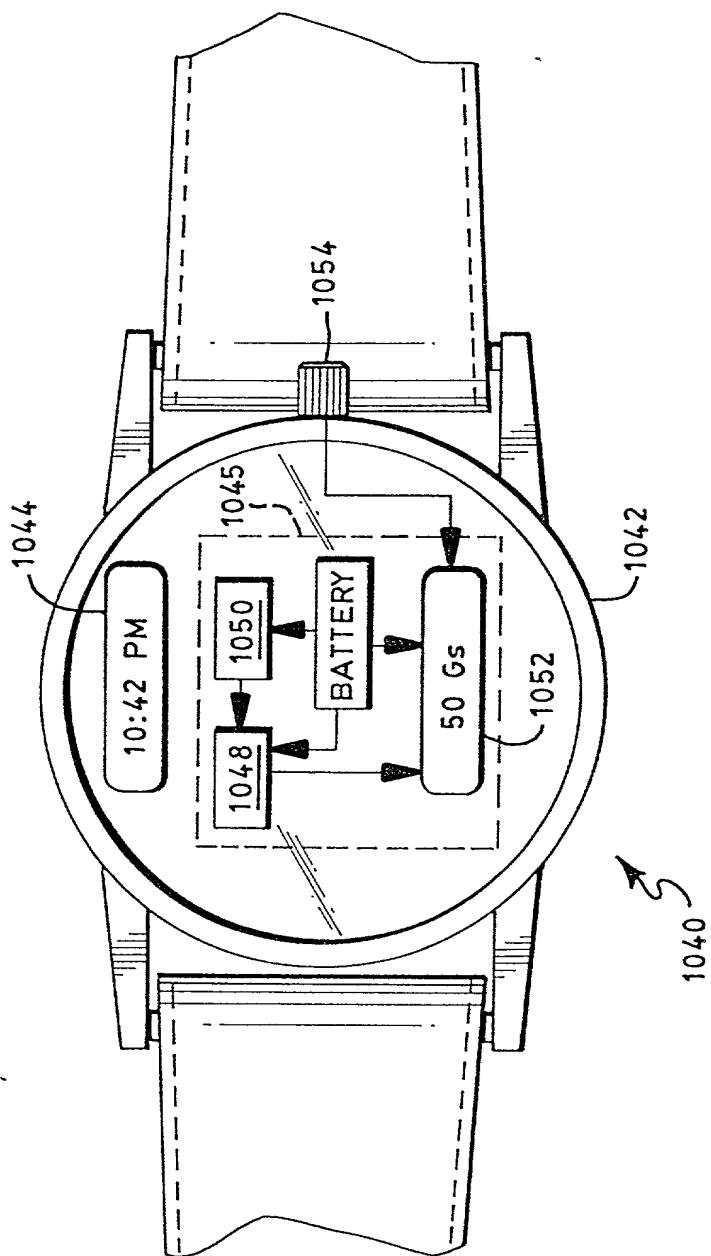


FIG. 39

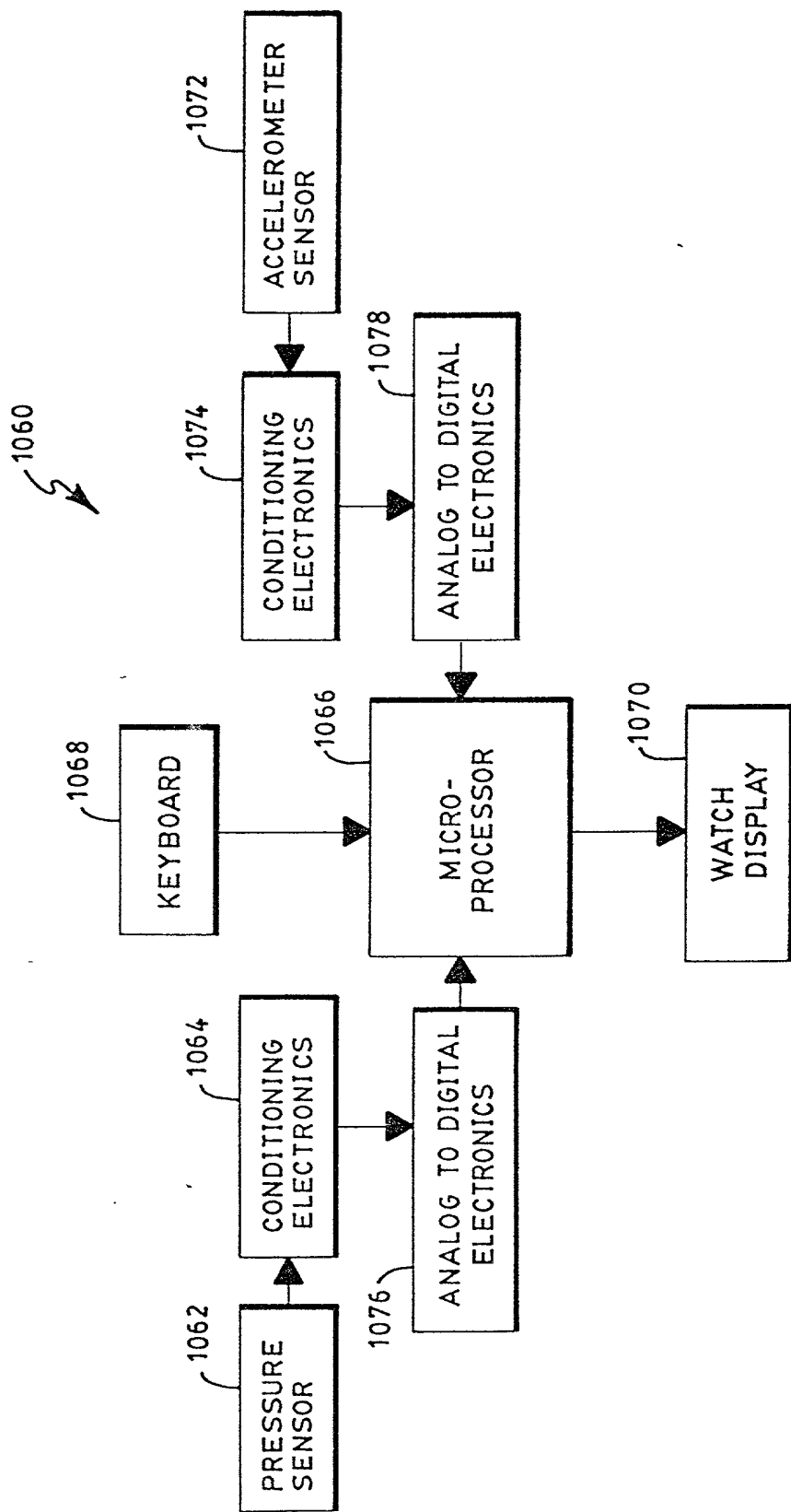


FIG. 40

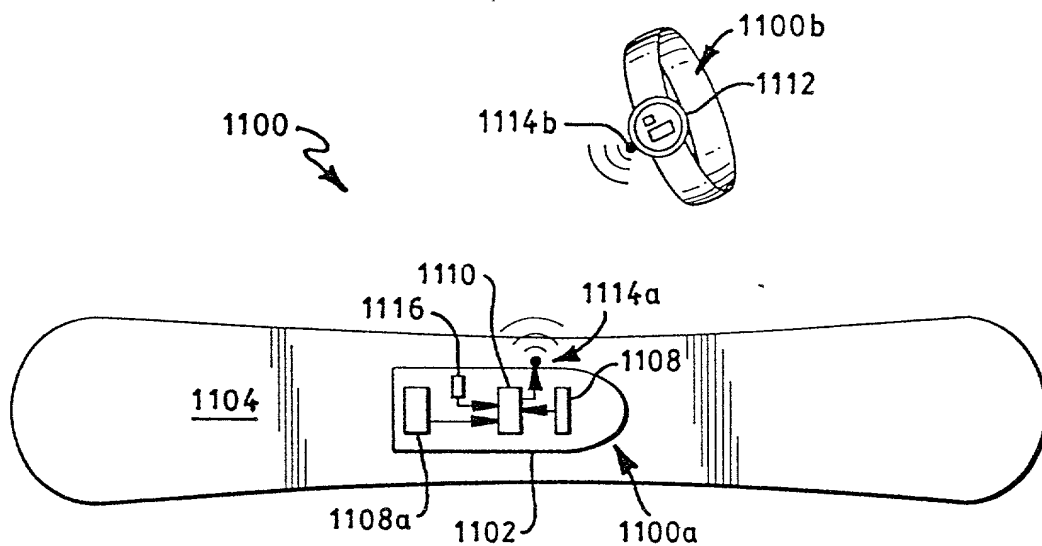


FIG. 41

ACCELEROMETER SPECTRA, < 2mph

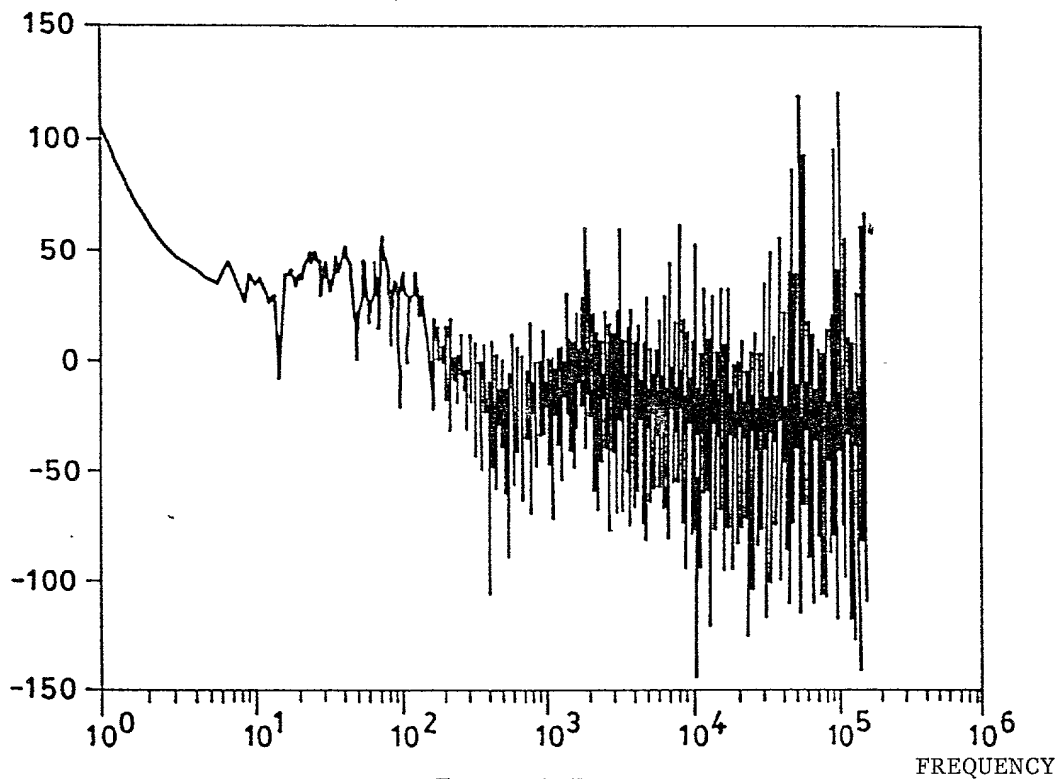


FIG. 43

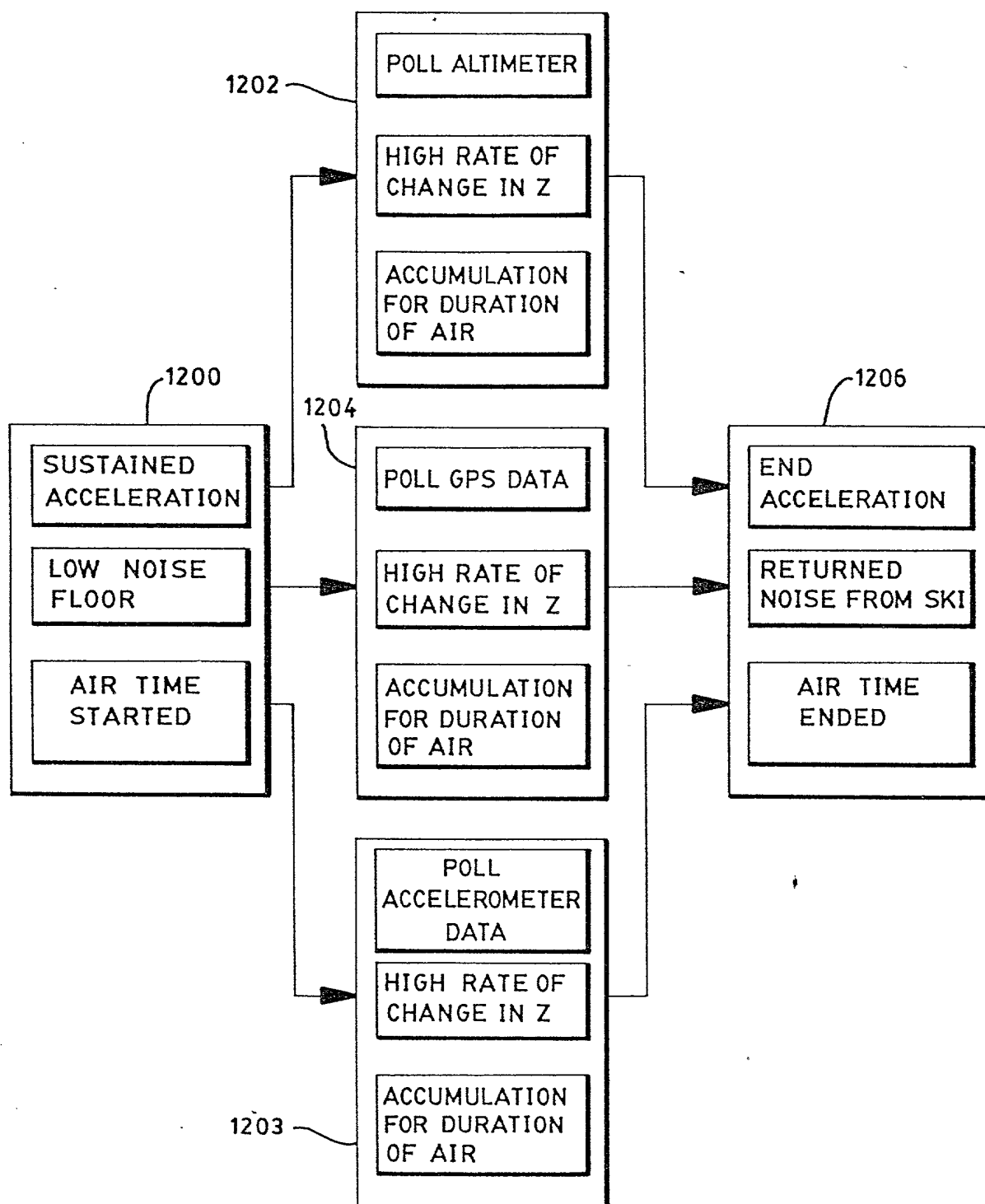


FIG. 42

ACCELEROMETER SPECTRA, > 15-20mph

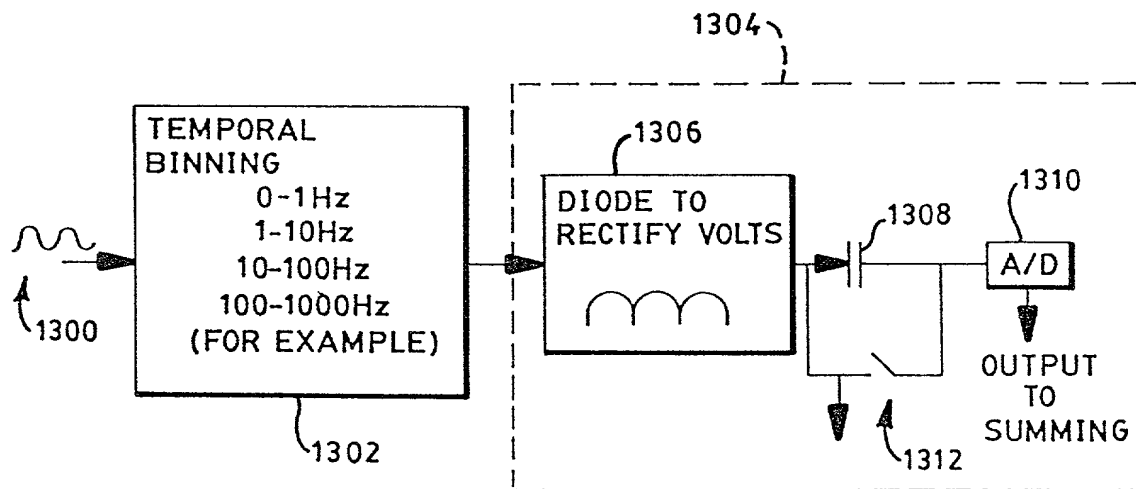
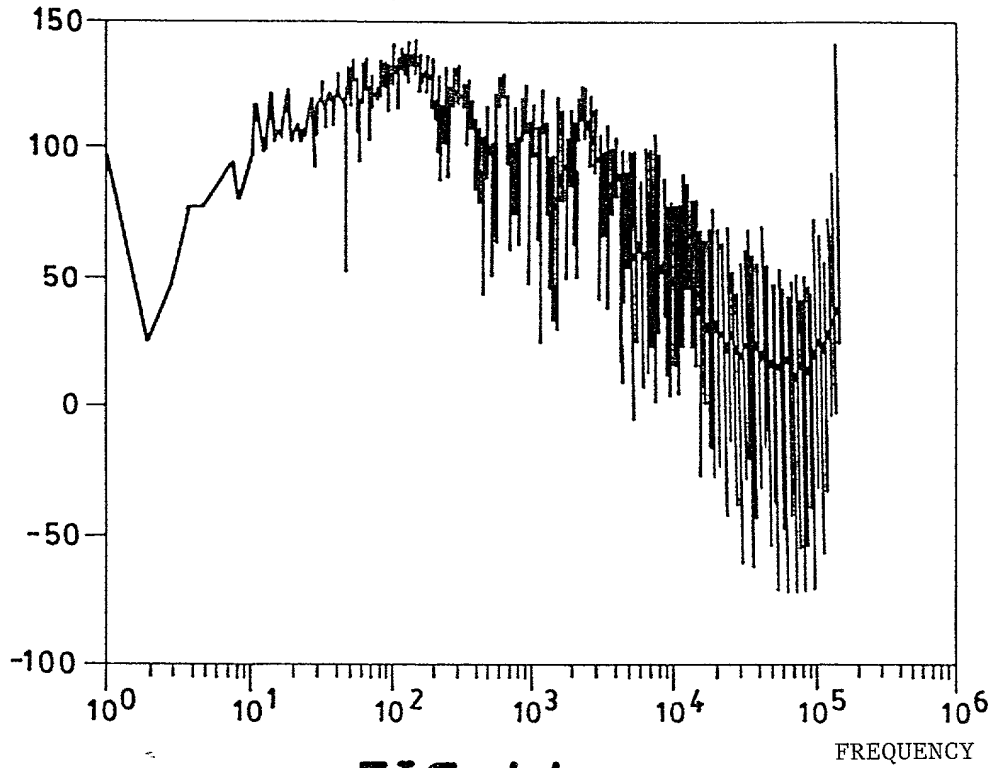


FIG. 46

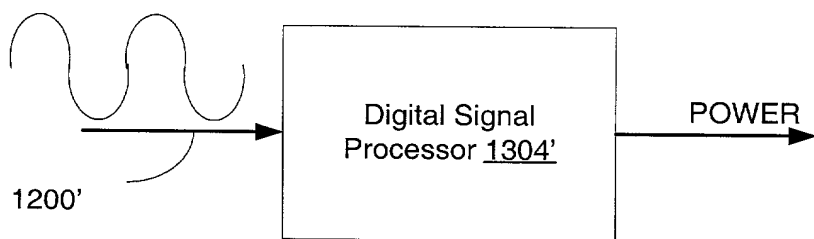


FIG. 46

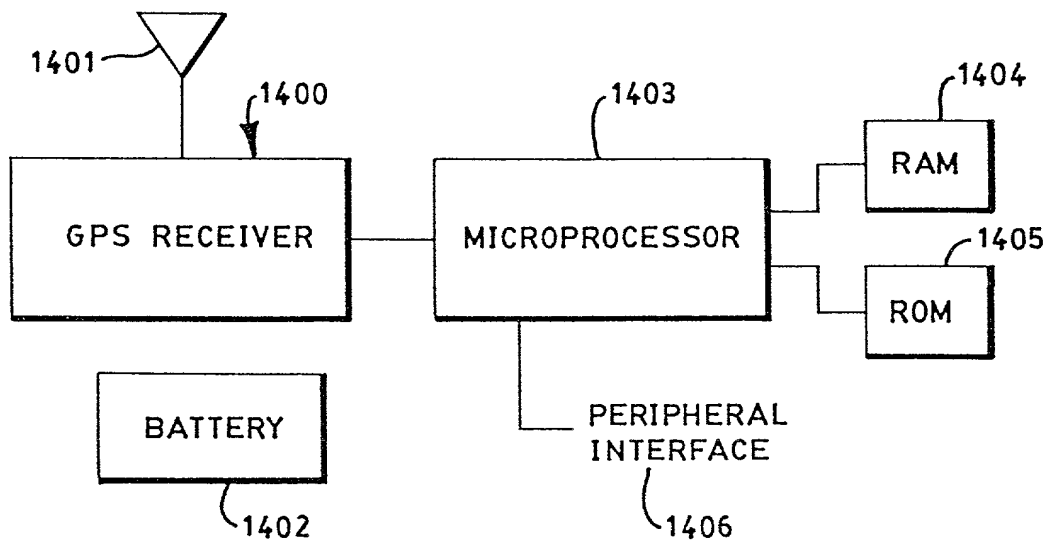


FIG. 47

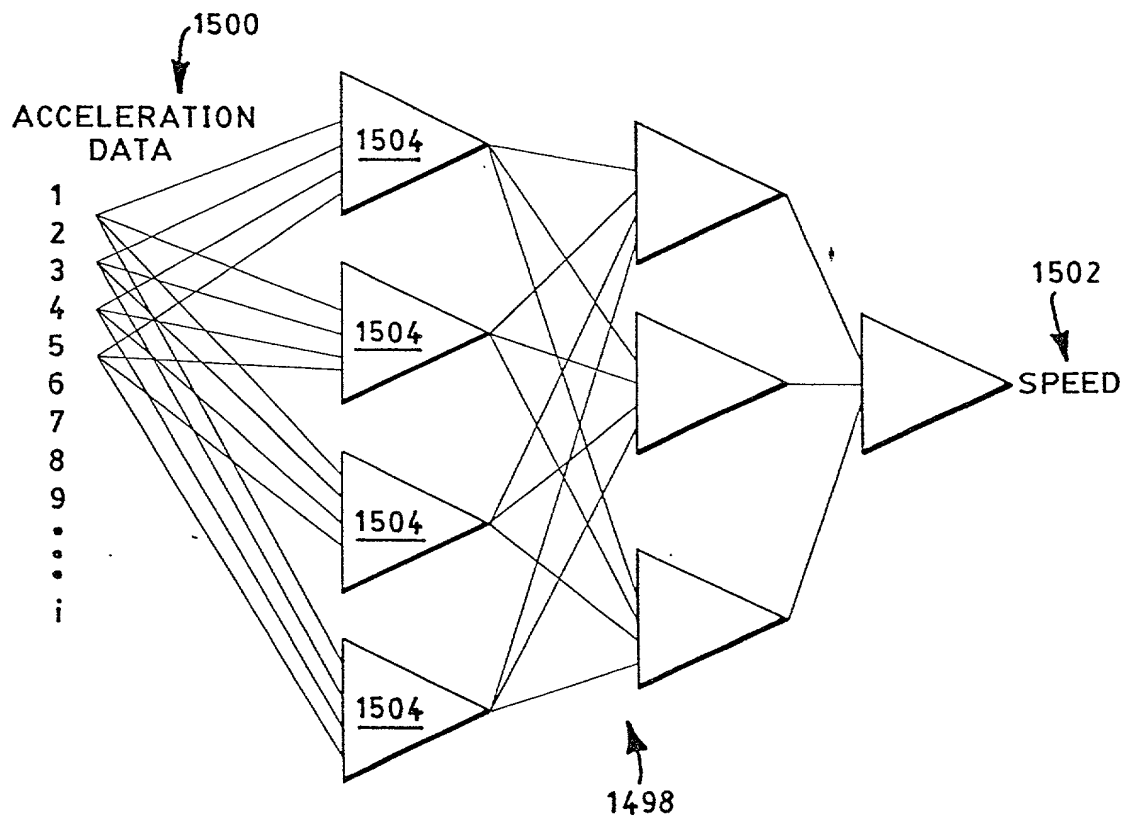


FIG. 48

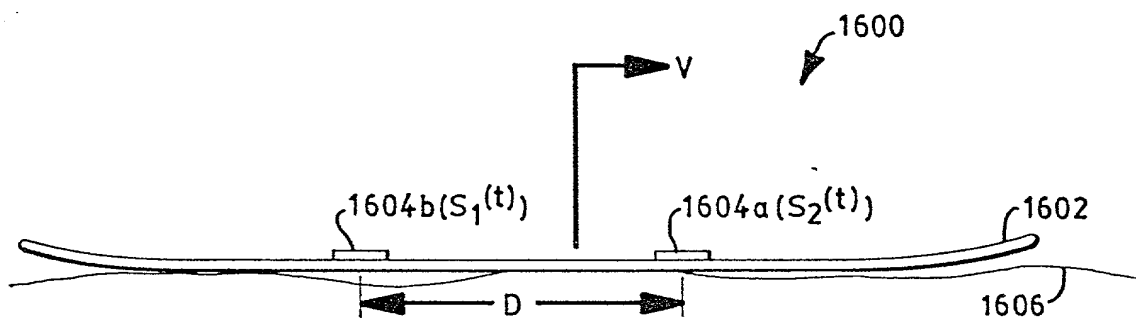


FIG. 49

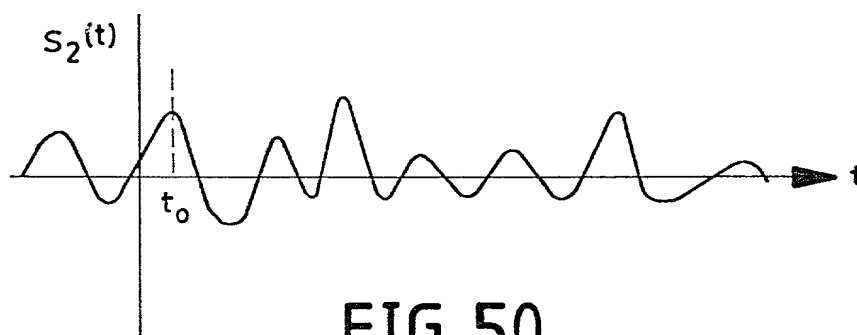


FIG. 50

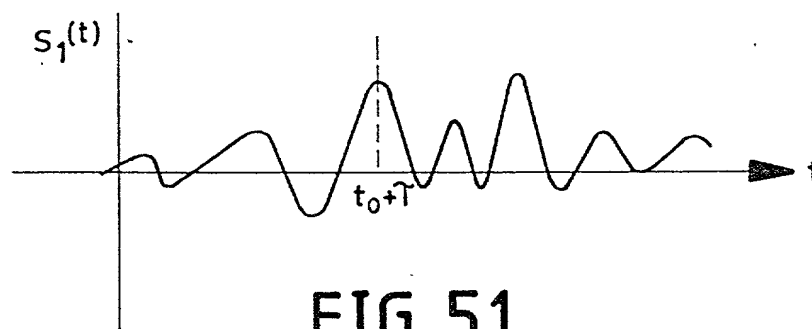
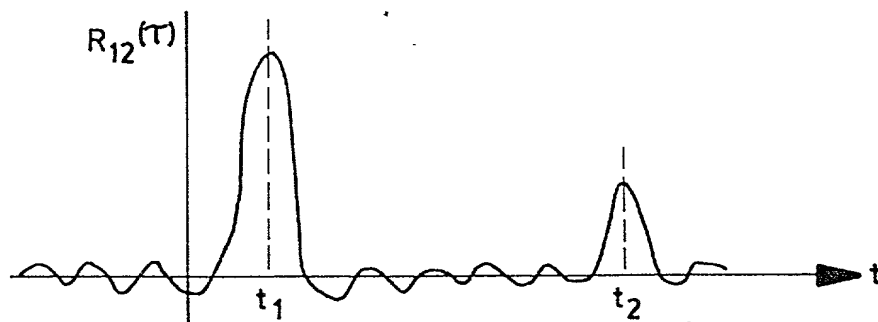
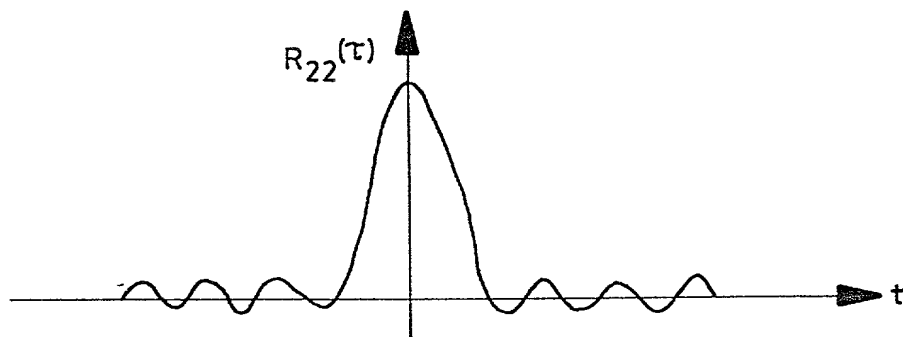


FIG. 51



TYPICAL CROSS-CORRELATION FUNCTION

FIG. 52



TYPICAL AUTO-CORRELATION FUNCTION

FIG. 53

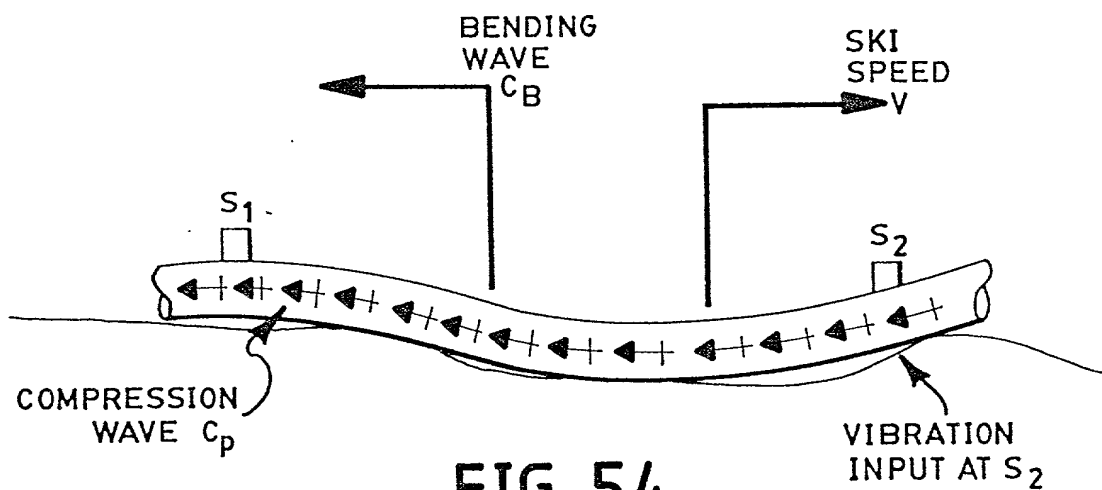


FIG. 54

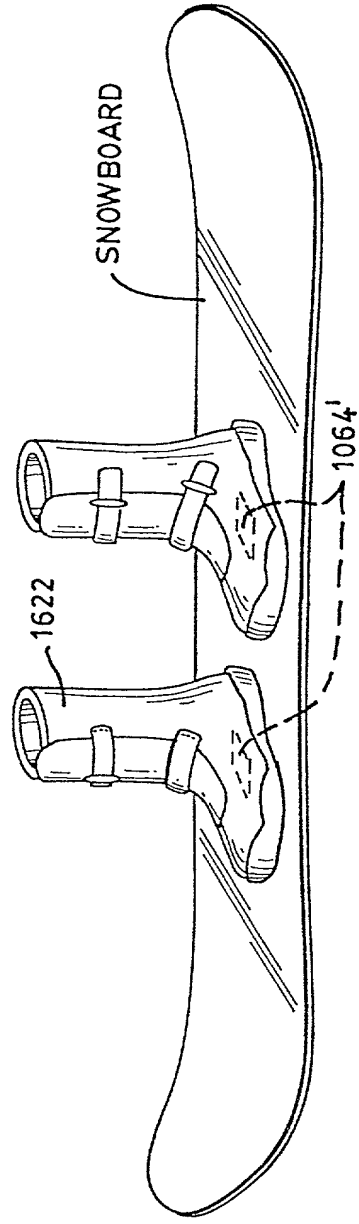


FIG. 55

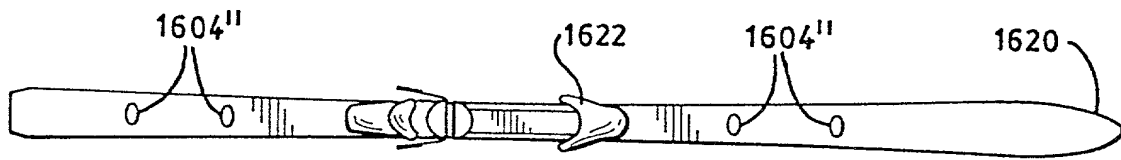


FIG. 56

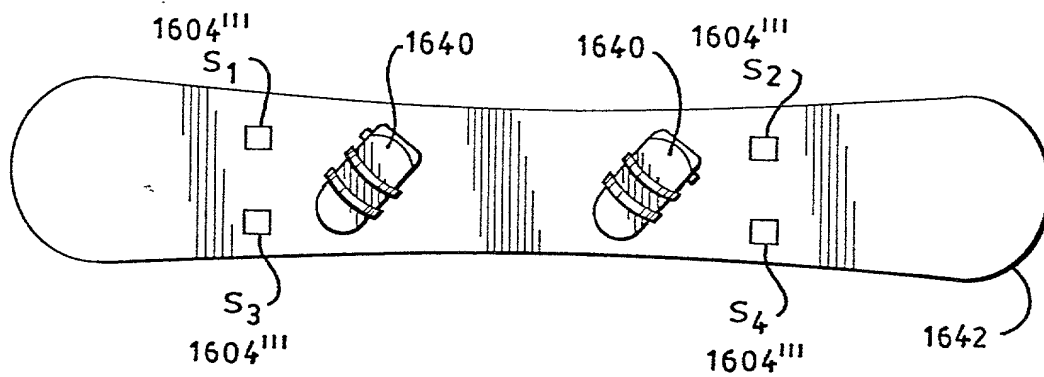


FIG. 57

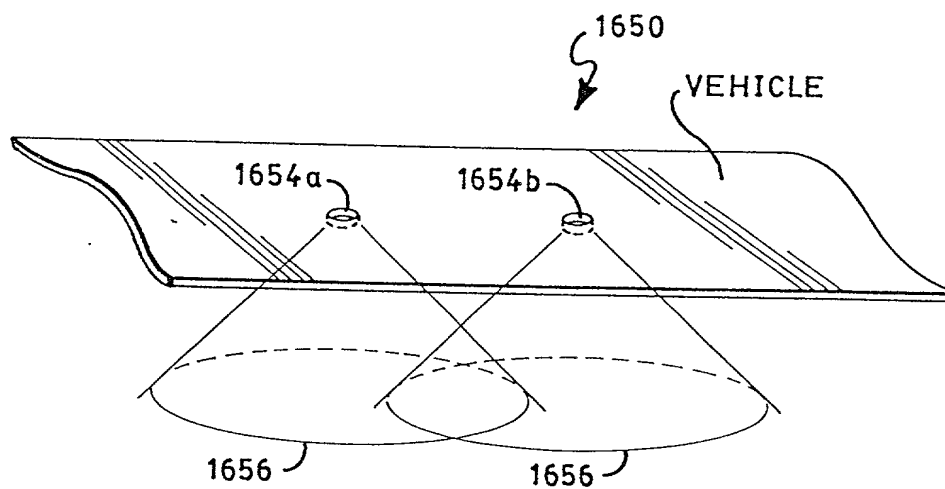


FIG. 58

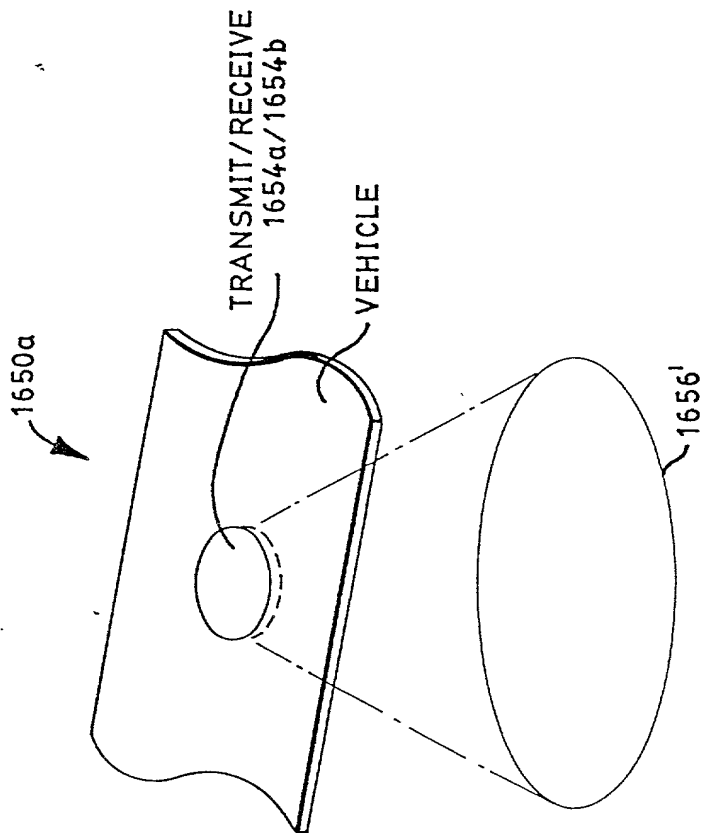


FIG. 59

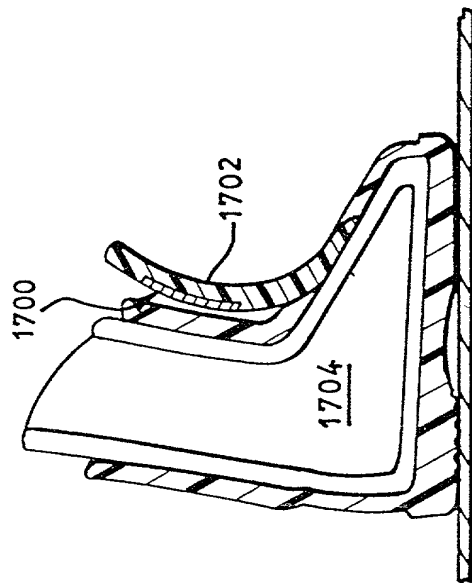


FIG. 62

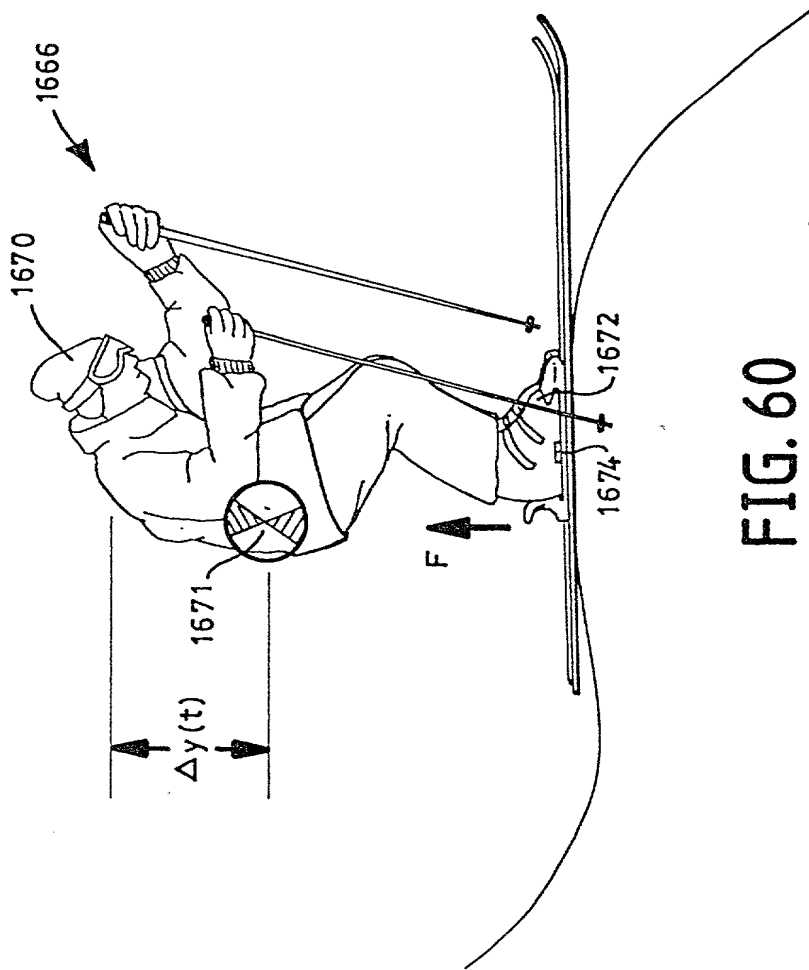


FIG. 60

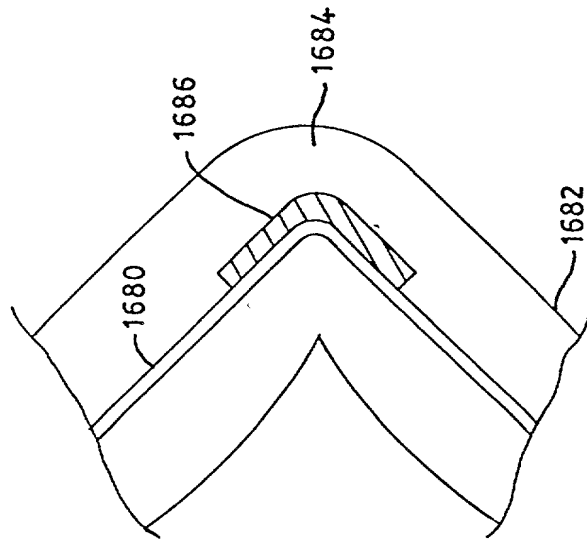


FIG. 61

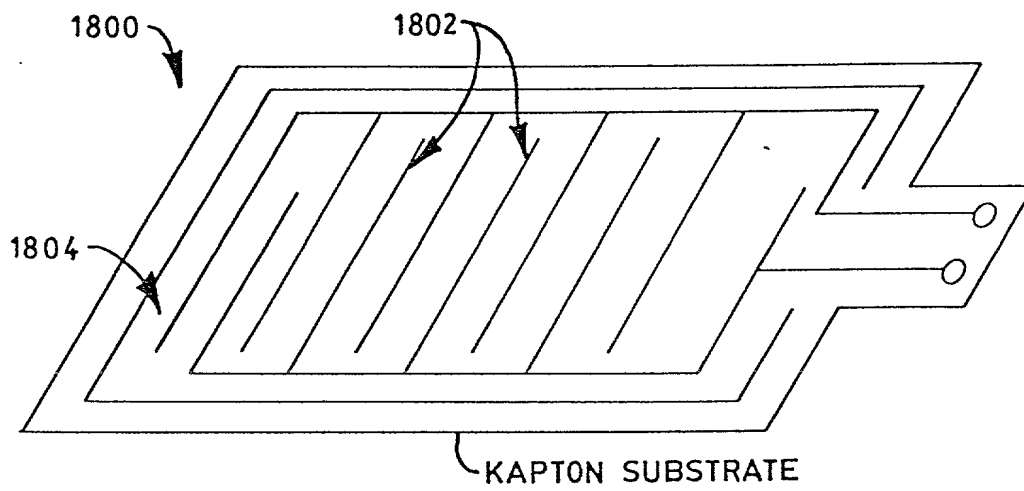


FIG. 63

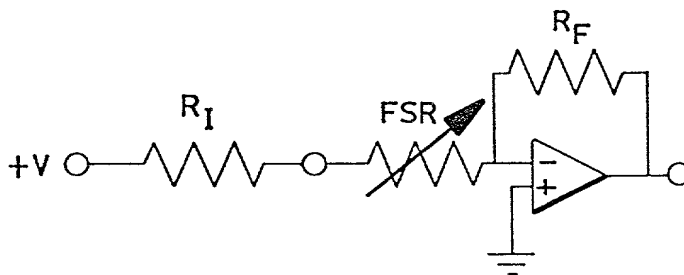
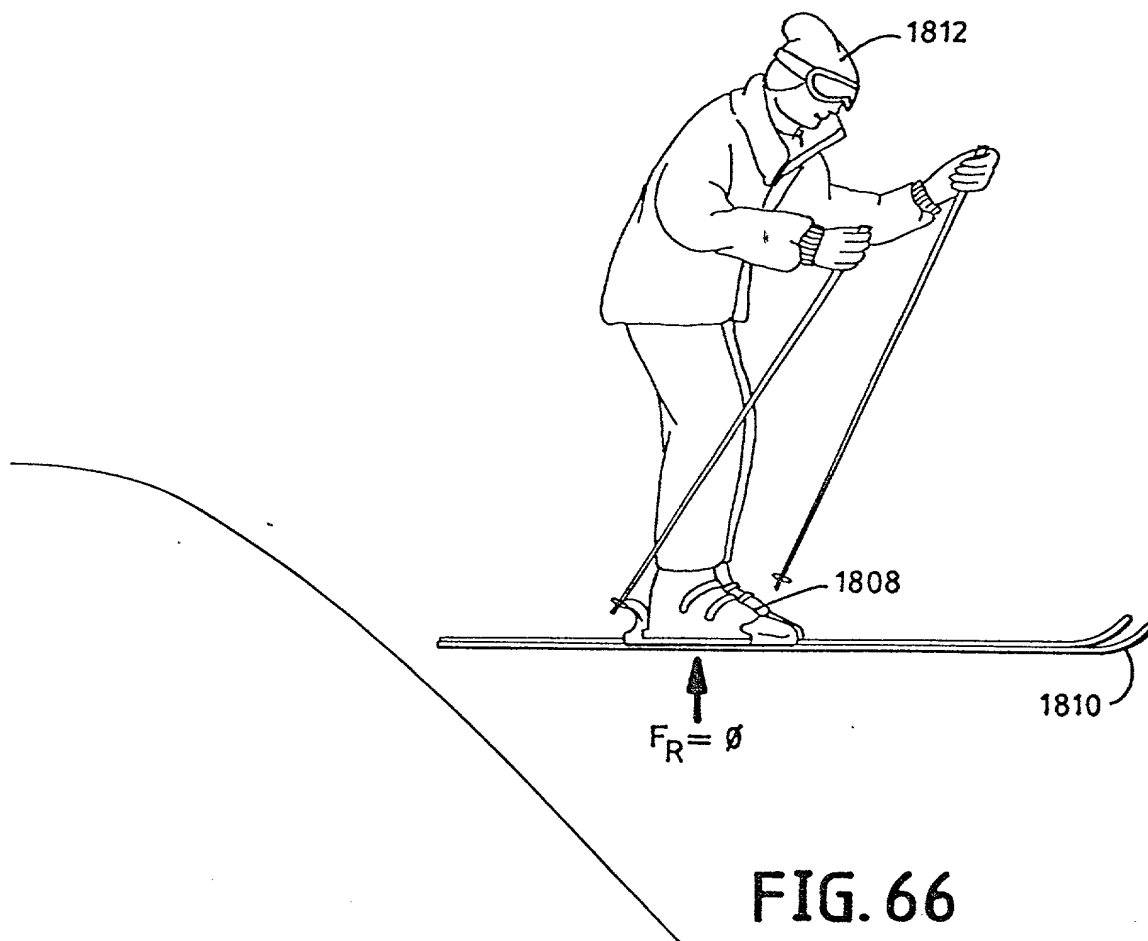
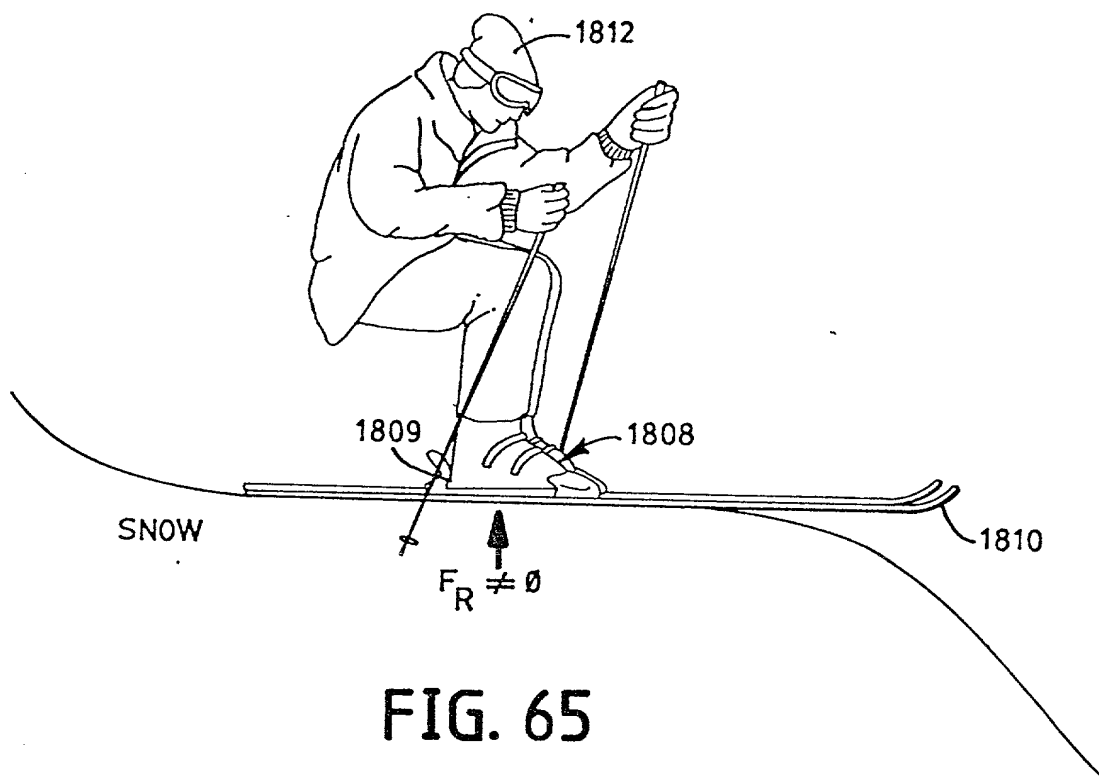


FIG. 64



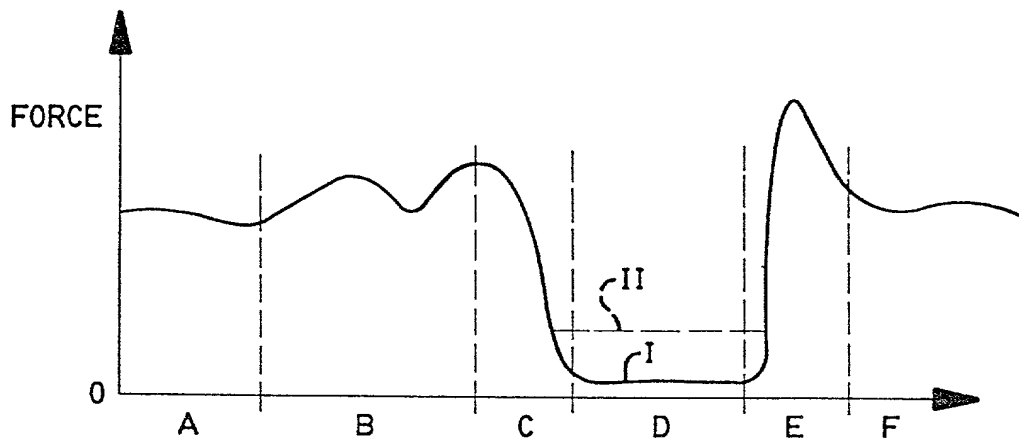


FIG. 67

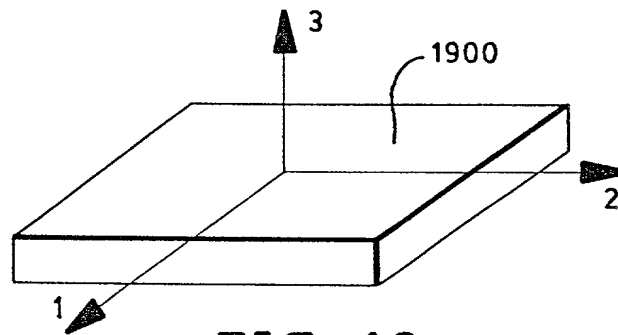


FIG. 68

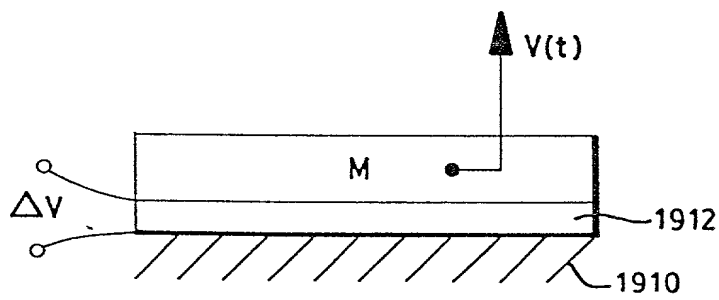


FIG. 69

099296-1001

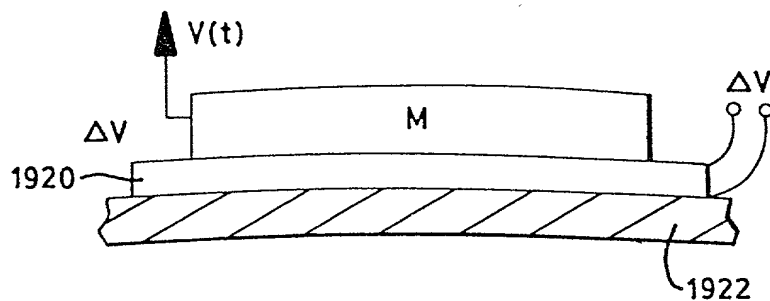


FIG. 70

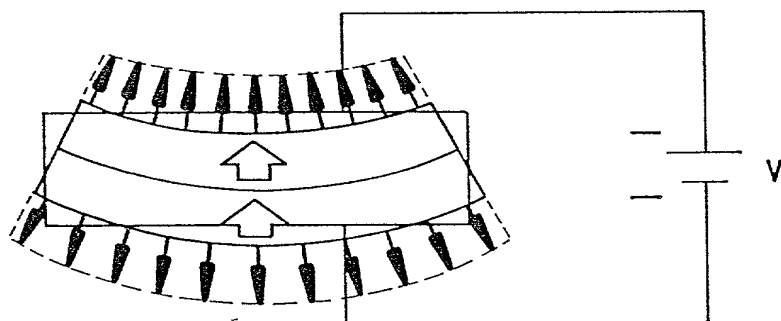


FIG. 71

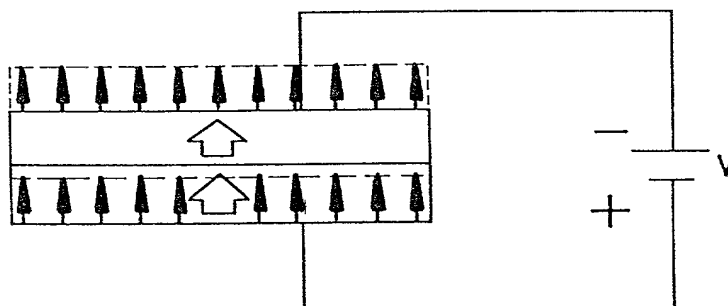


FIG. 72

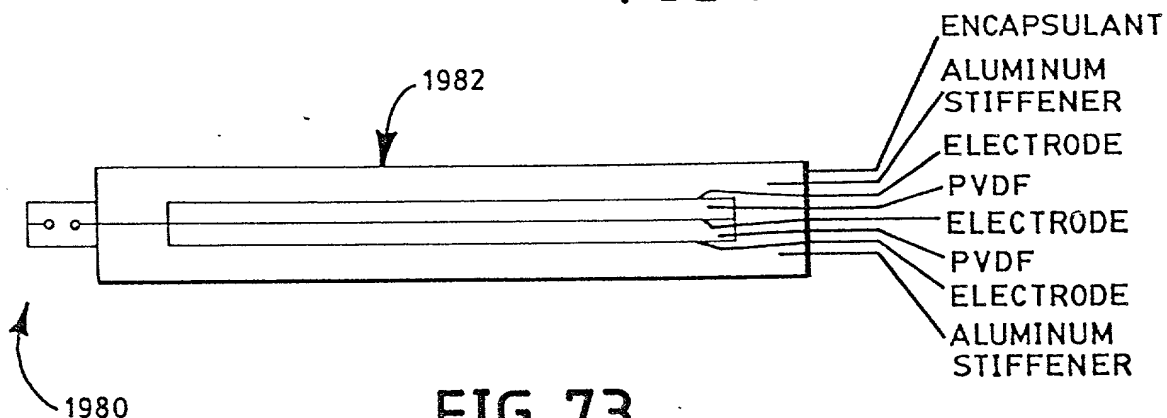


FIG. 73

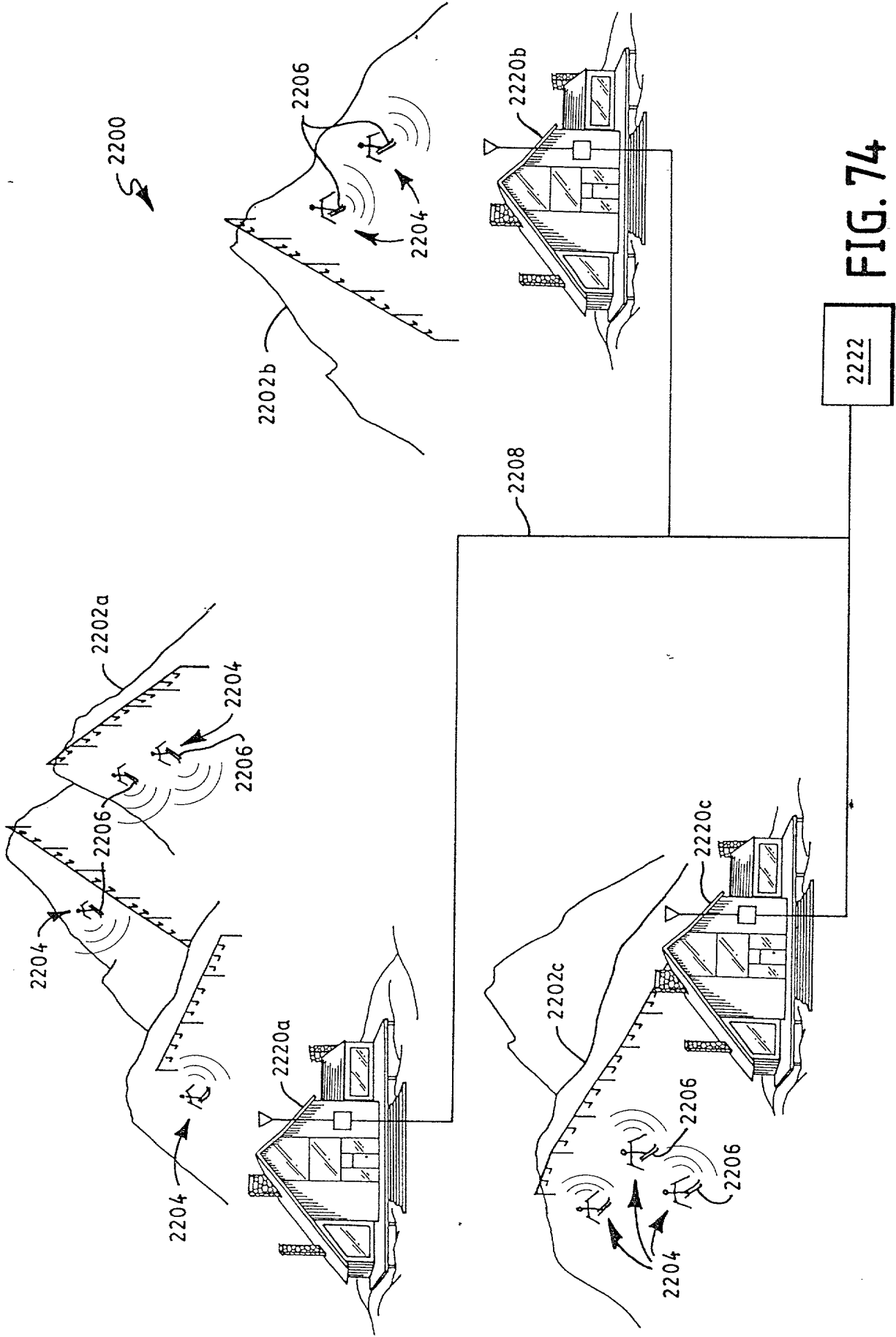


FIG. 74

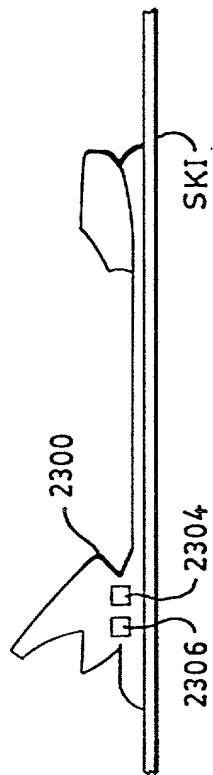
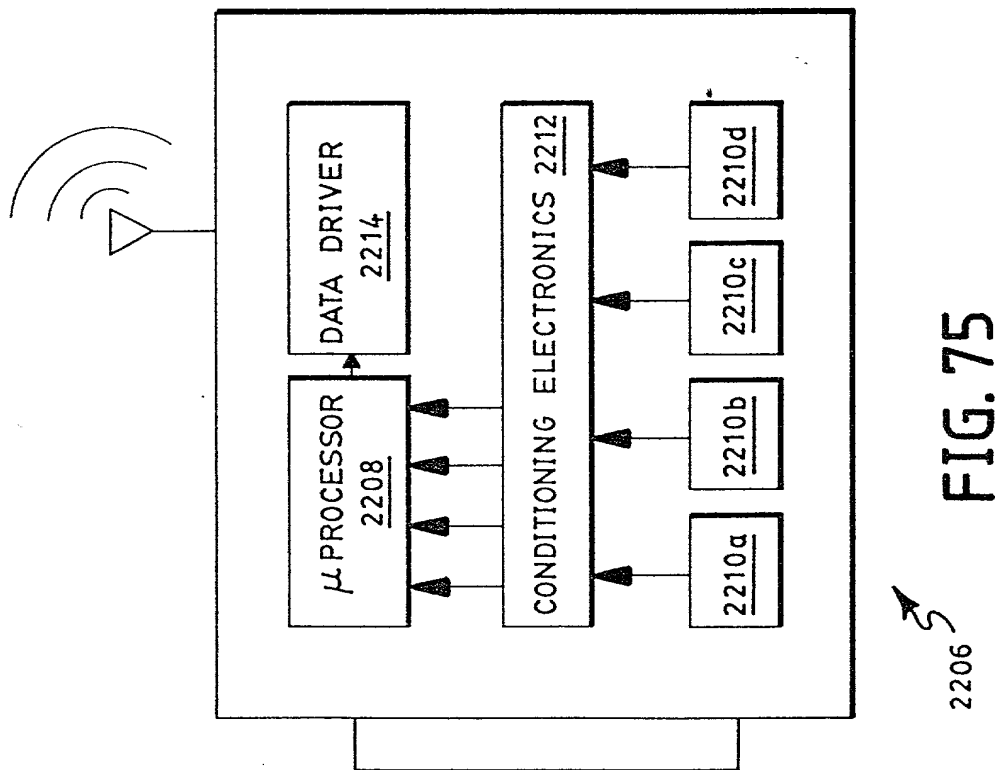


FIG. 76

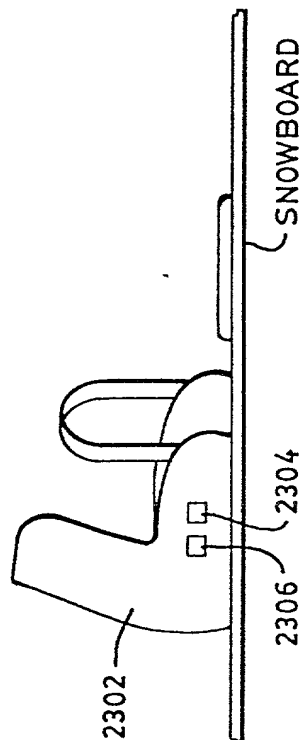


FIG. 77

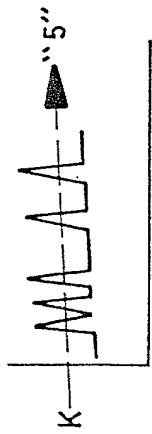


FIG. 78

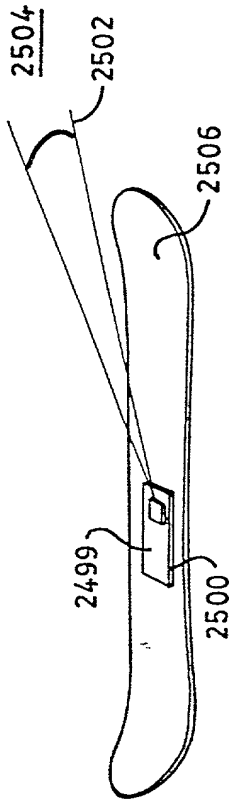


FIG. 79

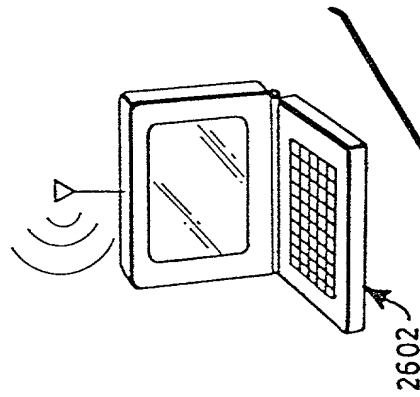
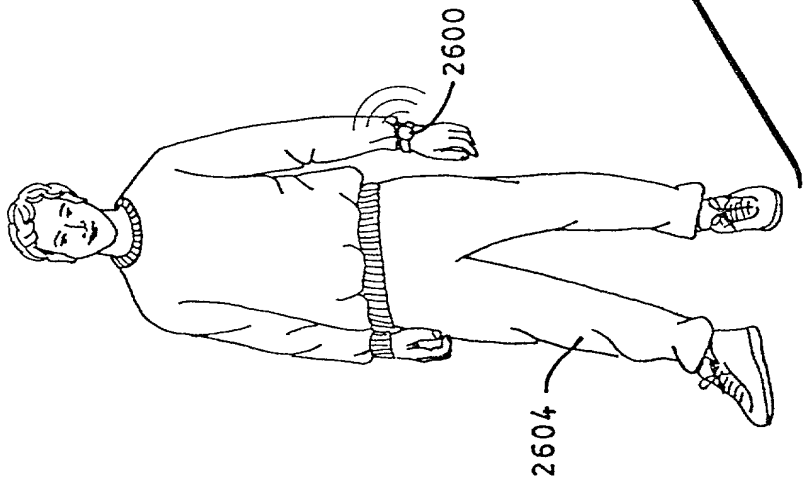


FIG. 80

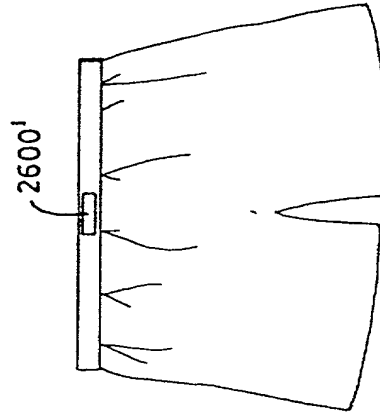


FIG. 81

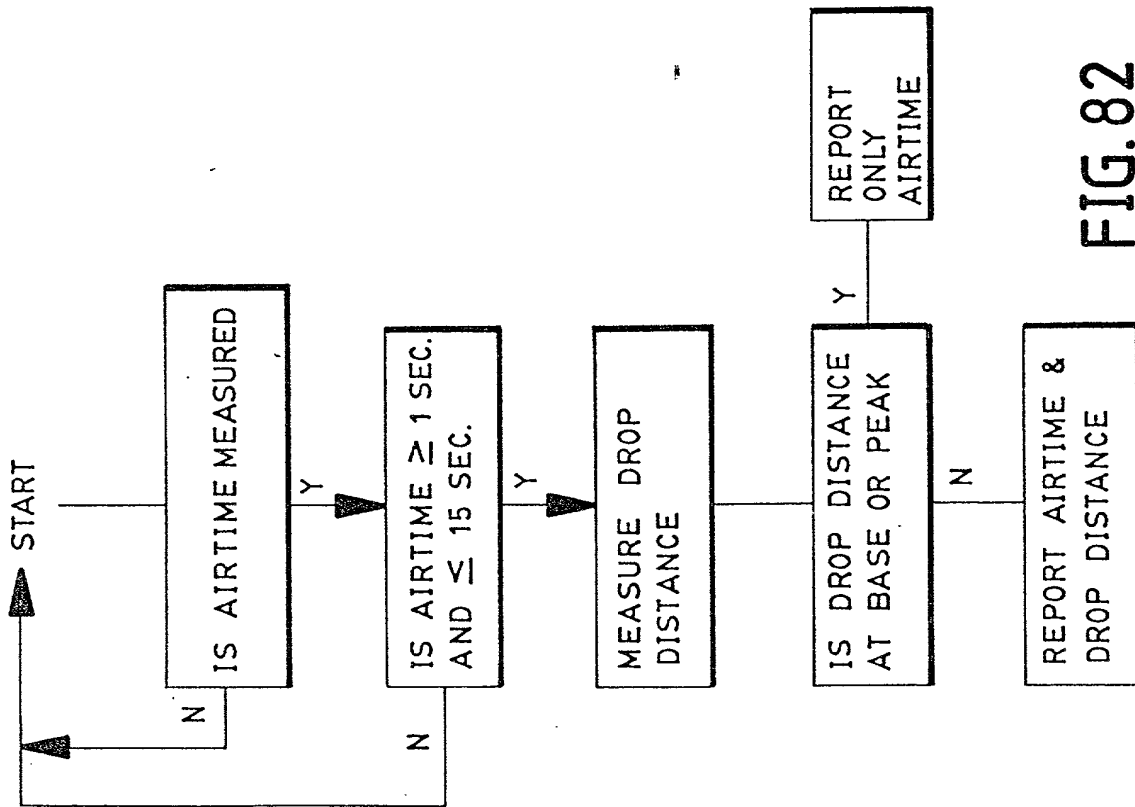


FIG.82

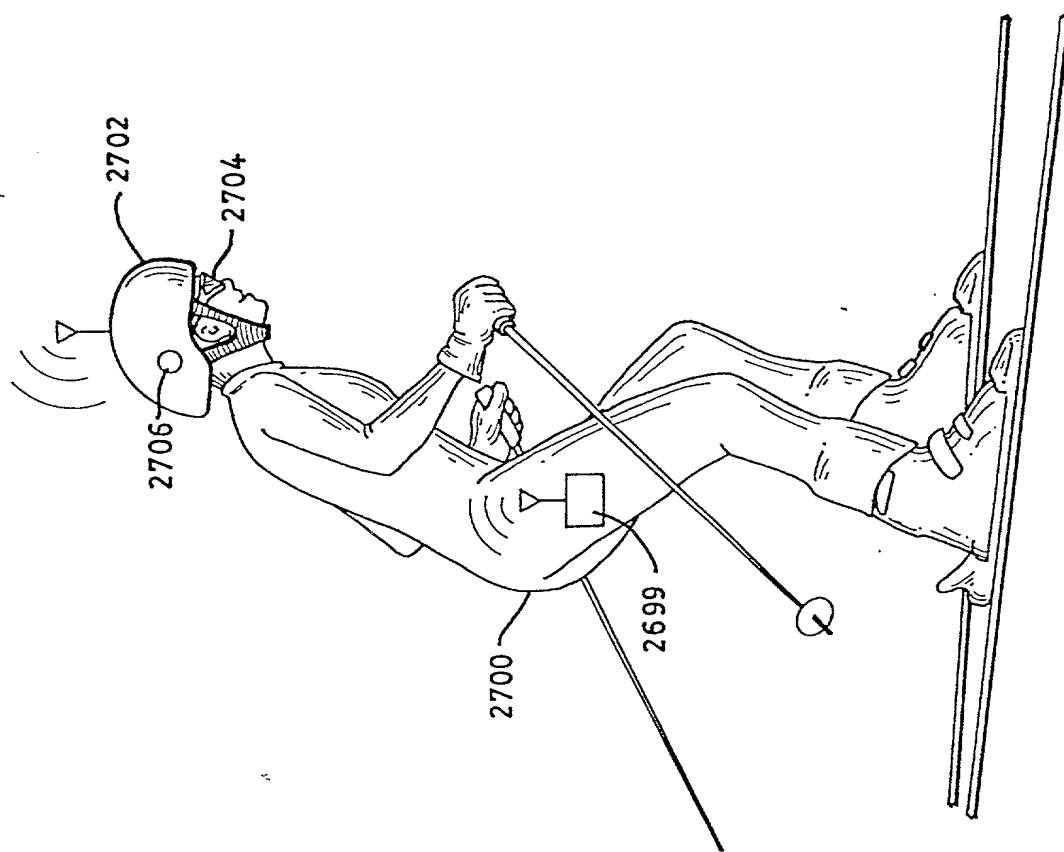


FIG.83

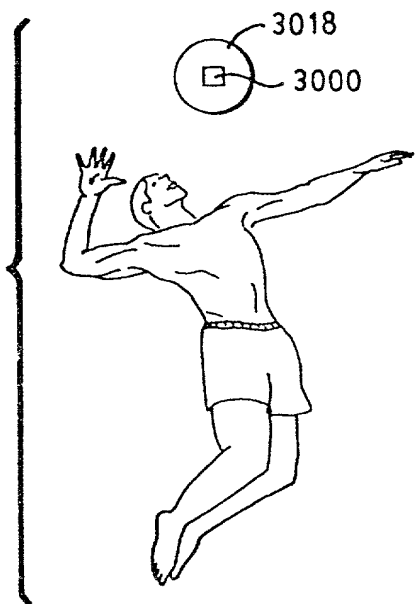


FIG. 84B

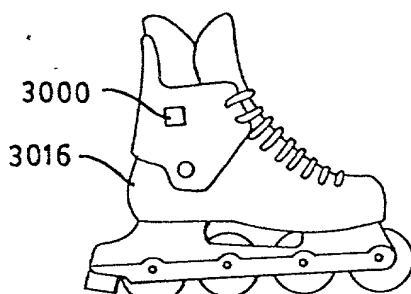


FIG. 84A



FIG. 84D

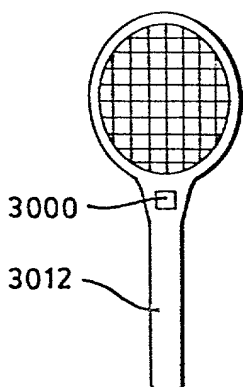


FIG. 84E

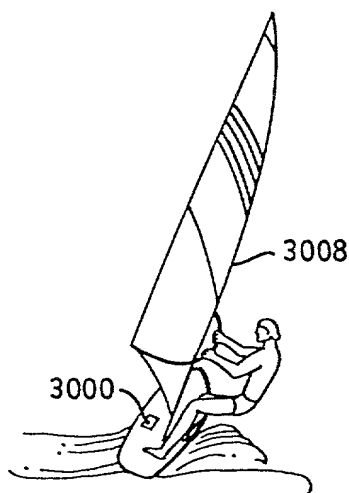


FIG. 84C

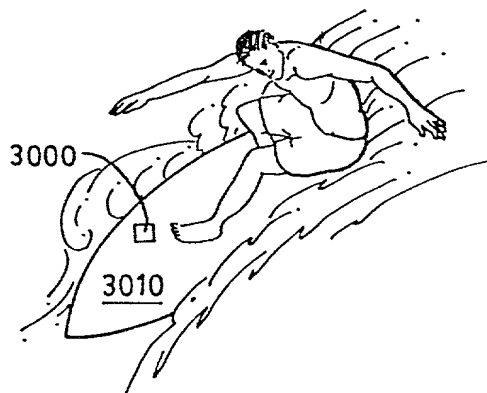


FIG. 84H

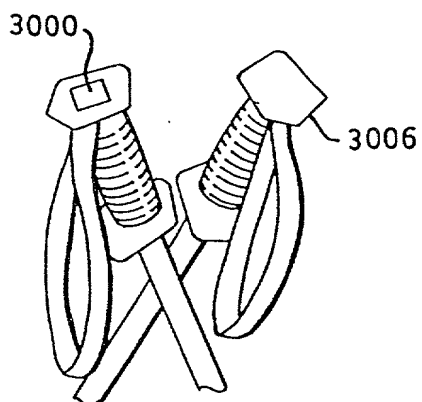


FIG. 84F

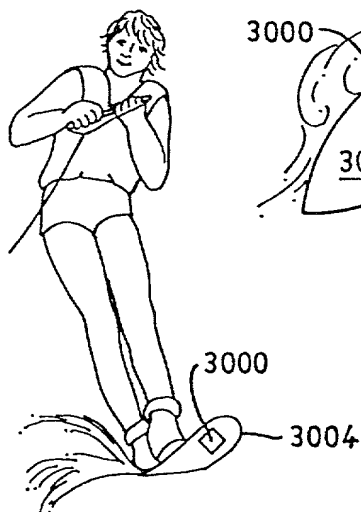


FIG. 84G